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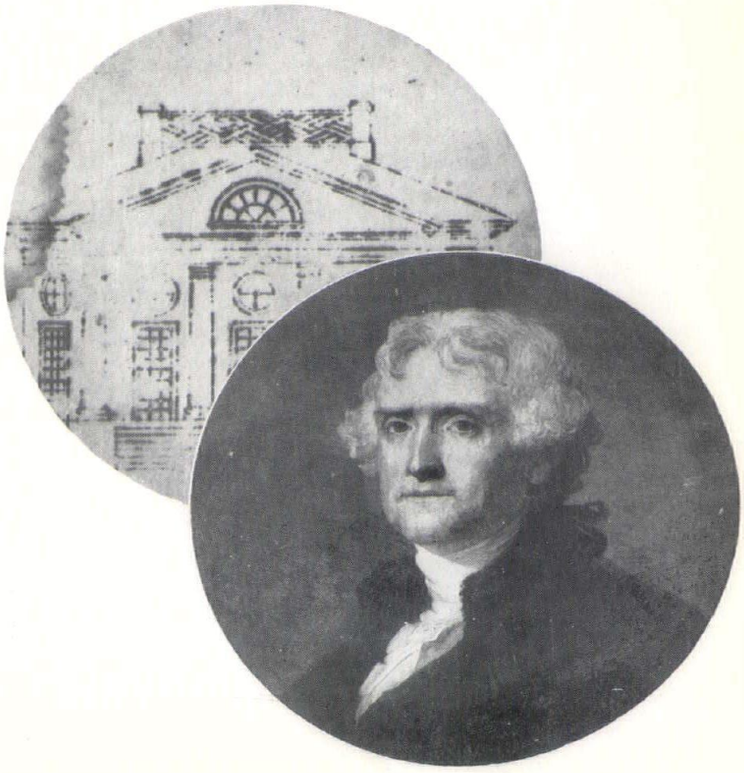

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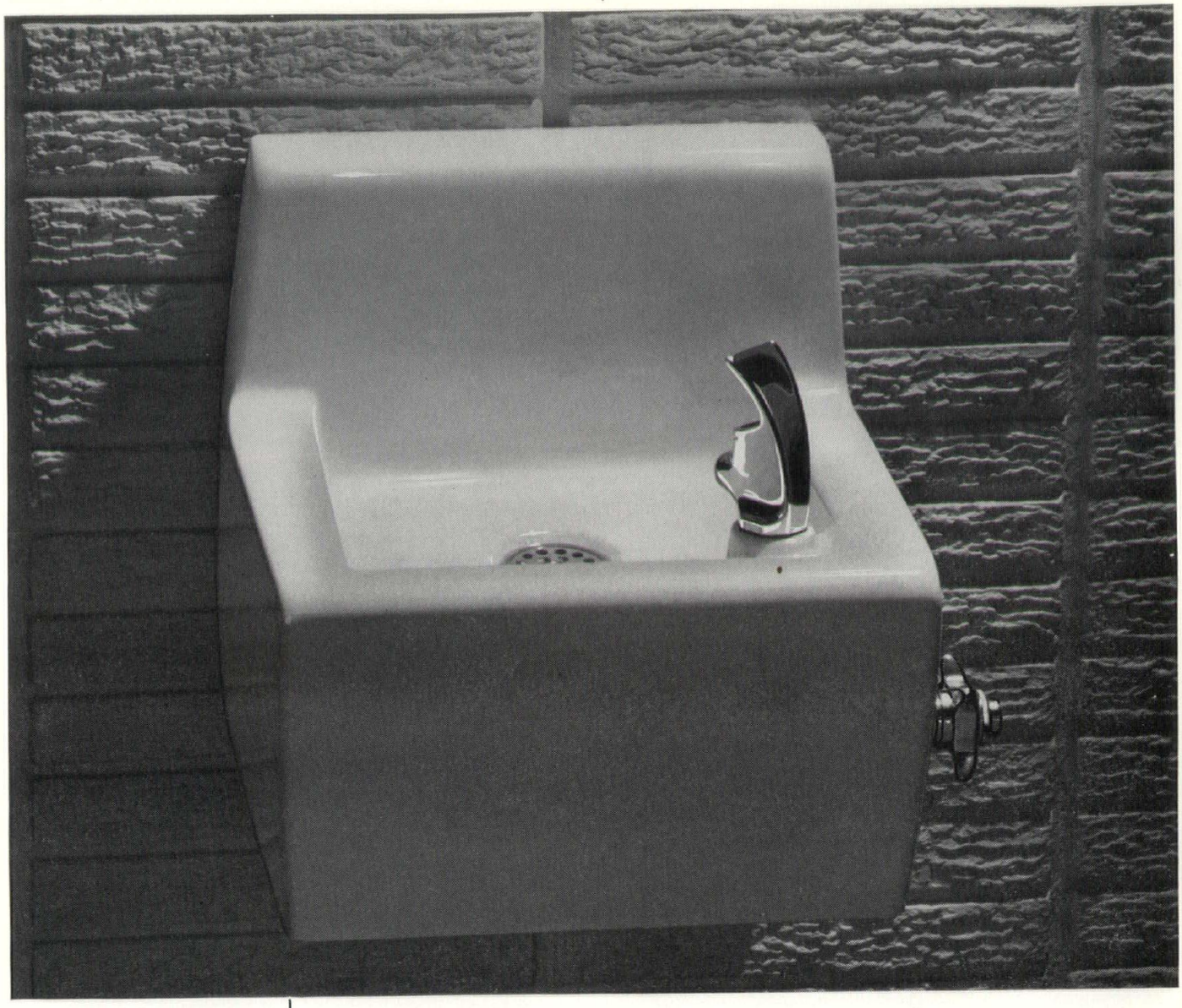
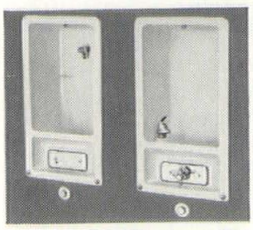
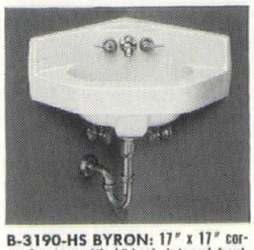


B-6965 SANITON: women's vitreous china, syphon jet wall-hung urinal.

B-6790 NOBLE: vitreous china wall-hung closet bowl.



B-4035-H PLANET: vitreous china fully-recessed combination drinking fountain and cuspidor.



B-3190-HS BYRON: 17" x 17" corner lavatory with 4" back, integral front.

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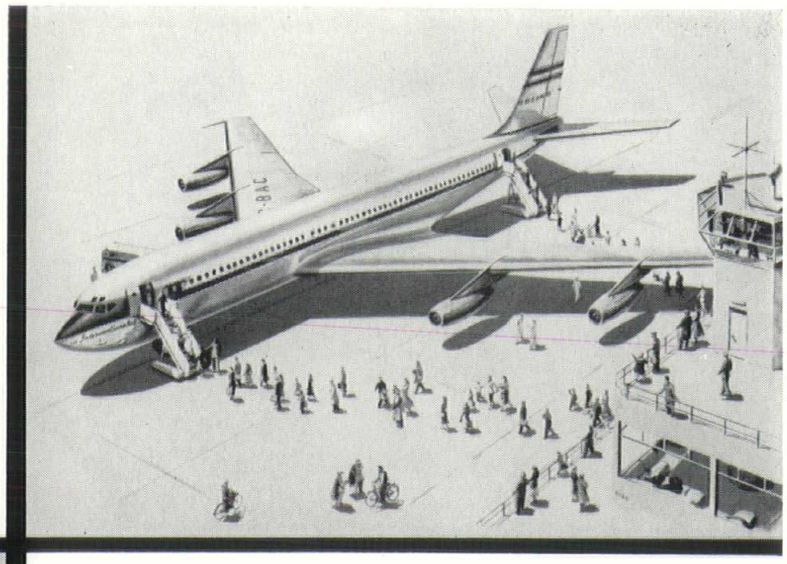
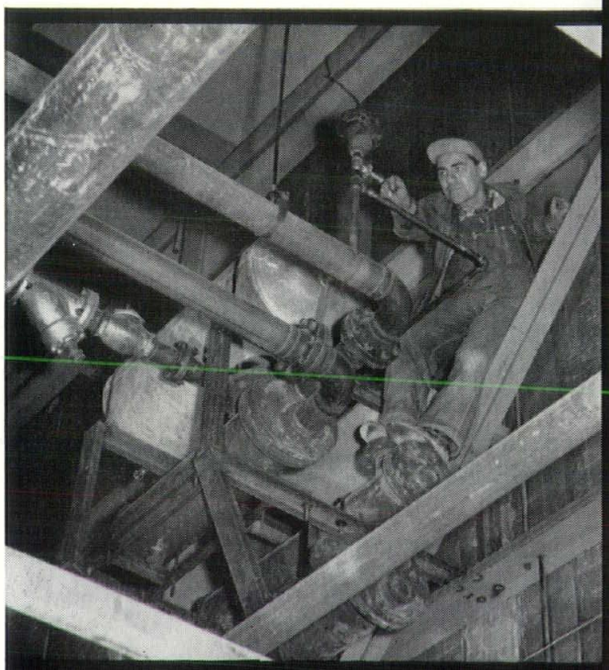


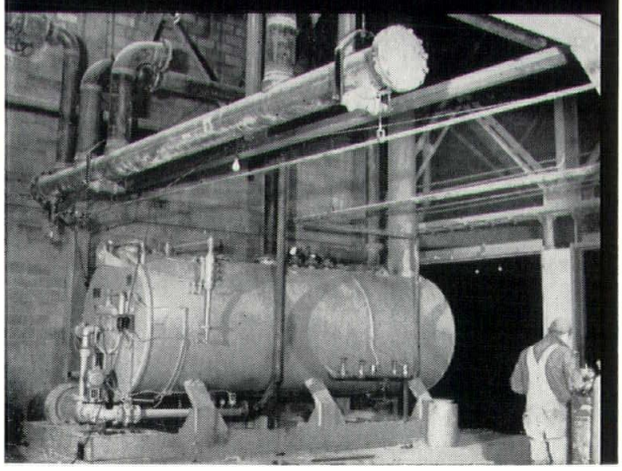
DESTINATION . . . DETROIT

The Boeing 707 will be one of the first jet airliners to use Detroit's Wayne-Major Airport facilities. First scheduled flights are expected by November, 1958.



Spitzley mechanic completes installation of a converter. This one supplies high-pressure hot water used for washing the planes.

Large hanger boiler supplies steam to three converters which feed hot water to the two main heating systems and auxiliary hot water systems.



When the fast U.S. jetliners go into service at Detroit's Wayne-Major Airport, they'll be berthed in huge new hangars designed specifically for servicing jet-age commercial airliners.

Installation of the complex heating and ventilating system for the first hanger—a modern, 63,000 square foot cantilever-type structure built for American Airlines—was done by R. L. Spitzley Heating Company.

Radiant heat from more than 8 miles of piping embedded in the concrete floor warms the air in the main hangar area and "nose wells" beyond the highest point where mechanics will service the planes.

A conventional steam radiation system keeps the 15,000 sq. ft. office, maintenance and tool room areas comfortably warm. In addition, a special heated-oil system under the hangar doors was installed to keep the doors from sticking in freezing weather, and to create a warm air "screen" when the big doors are raised.

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Los Angeles Temple of the Church of Jesus Christ of Latter Day Saints. Architect: Edward O. Anderson, AIA, Salt Lake City

Los Angeles Temple . . .
textured panels and grilles of precast concrete add warmth and serene beauty

Once again—for aesthetic and practical reasons—an important building is designed in concrete. To cover the 126,000 square feet of surface on this magnificent Los Angeles Temple, over 2,500 separate concrete panels and grilles were required. To achieve delicate color as well as textural interest the surface of each piece was etched with acid.

These panels and grilles have exceptional durability. They were made with a high quality clean quartz aggregate and white portland cement with a low water-cement ratio. Each unit is 2¼ inches thick and is reinforced with a 4-inch steel mesh.

The detail in the grille work over the windows, so easily achieved with concrete, was taken from patterns based on the beehive and the Sego Lily, Utah's state flower.

Today, architects everywhere are using concrete in its newest forms for greater freedom of expression in structures of all kinds.

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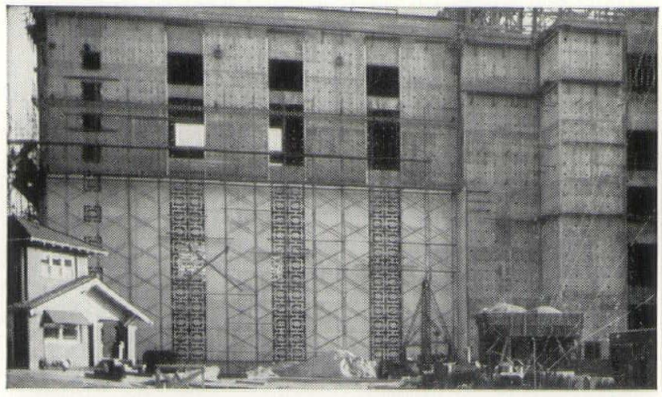

Individual grilles and panels averaged 7 x 8 feet, but some were as large as 6 x 14 feet.

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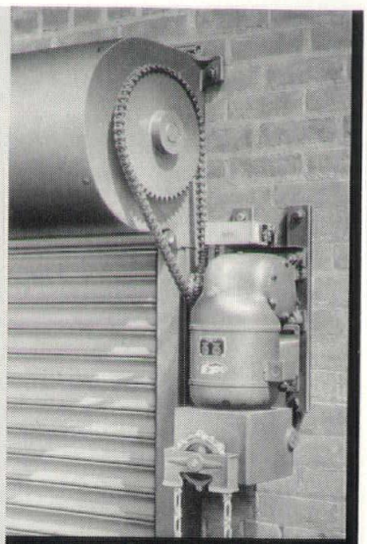

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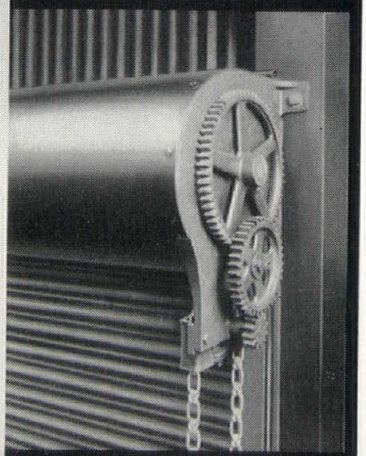

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You and Your Public

By Hugh W. Brenneman
Public Relations Consultant
Mich. Society of Architects

YOUR ELECTED OFFICIALS asked me to write this article. They decreed that it be followed each month by a similar column. The subject is to be Public Relations of, and for, architects and the profession of Architecture.

On the surface this sounds easy. It isn't. To cover the whole field would require a book-length dissertation. Even then many an architect could (and probably would) logically say: "This doesn't answer my problem." And he would be quite right.

That pinpoints precisely the objective I want to gain in this introductory article —namely, to ask your cooperation. I can't answer your problem with sweeping generalizations. At least I can't do so in a way that will serve you most effectively.

On the other hand, it is quite probable that your problem is similar to that of other architects and architectural firms. So, in answering it in this column, the end result may be of far more direct benefit to the architects of Michigan than if I guessed what your problem is and answered with my own, perhaps erroneous, assumption.

This, of course, presupposes that you know a P.R. problem when you see one. I don't mean that to sound insulting, because it really isn't. Public Relations is a relatively new subject area and consequently is not as well understood as Law, for example. Even in the field of Law the persons who recognize potential legal problems, for what they are, are few and far between—at least the lawyers think so.

Far be it from me to try to point out all of the possible P.R. problems you might have. Rather let's say it this way: If you and your firm are well-known among all potential Owners; if your reputation is one of fine work, reasonable cost, and efficient service; and if you have more profitable business than

Table of Contents

You and Your Public 9
Advertisers' Index 11
Biddle House Contributions 13
National Architect 15-33
Definitions of "Architect" 17
Operation Restoration on English Cathedrals 20-23
Farmington Country Club 24-31
Kirk In The Hills 32-33
Saginaw Valley Chapter, AIA 35
Architectonics, Western Michigan Chapter, AIA 37
Detroit Chapter, AIA 39
Moscow Report 40-41
Detroit Architectural Golf League Party 42-43
AIA, U. of M. Student Chapter 44-45
Women's Architectural League of Detroit 46
Producers' Council, Inc. 47
Products News 49-53
MSA, AIA, Roster of Sustaining Members 55-56
MSA Roster (Geographical) 59-71

Coming Issues

JANUARY, 1959—Manson & Carver Associates

FEBRUARY — Frederick E. Wigen & Associates

MARCH — 45th Annual M.S.A. Convention

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Masonry at Work

Vol. 1, No. 2

Nankin Township Junior High School, Section 1
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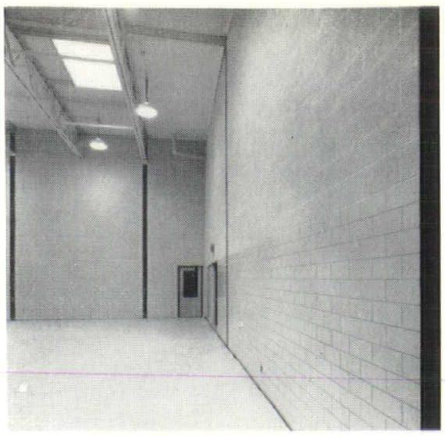

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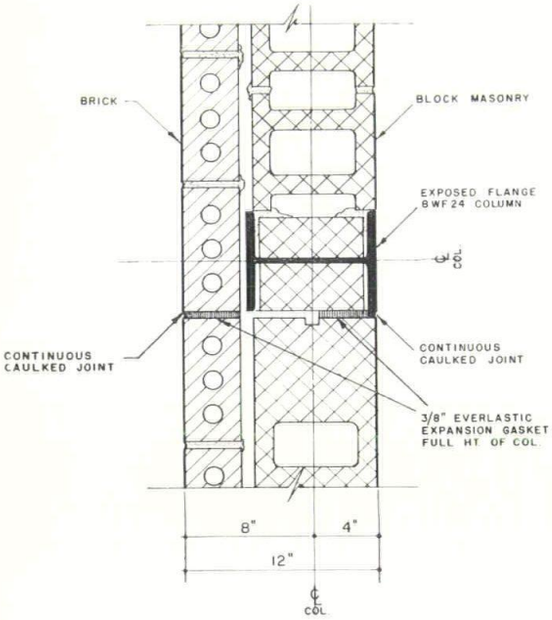

Plan Detail: Masonry Control Joint at Columns

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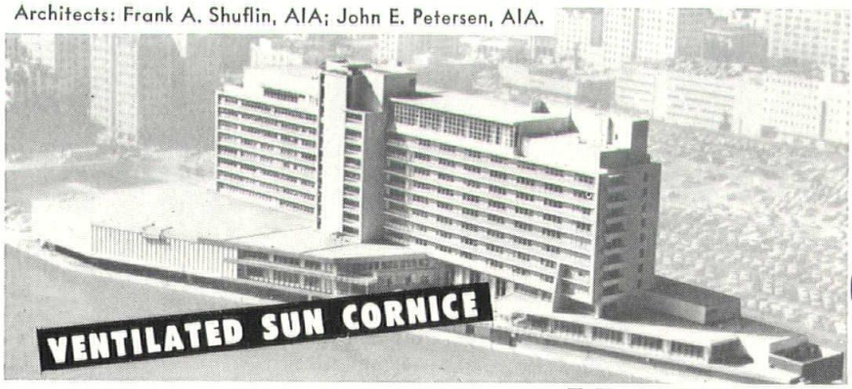

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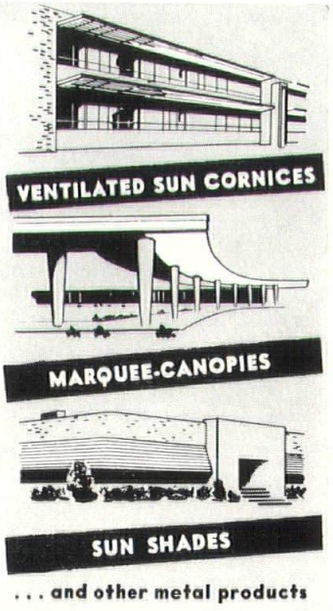


. . . and other metal products

you can handle in the foreseeable future—then you probably have only one P.R. problem and that is to tell your fellow architects how you do it. If the situation described does not exist—then drop me a note as to just what your problem is and I'll try to give some suggestions to you, through this column and without, of course, revealing the source of the inquiry.

Actually the main problem architects, as a profession, have is to show the public generally that the judgment and knowledge of the architect are valuable commodities which can be obtained at reasonable cost.

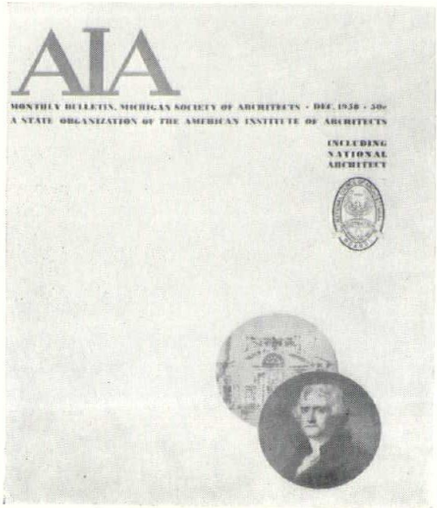
You will note I said "judgment and knowledge." Too often the public looks upon the architect's services as being the preparation of blueprints and the design of building exteriors. It is sometimes difficult to get across the idea that the architect's **thinking** — from which arises concepts of beauty, utility, and economy which are later transformed into construction—is the most valuable part of his service.

The same thing holds true for other professions. It is one of the reasons why the professions are joining together in the Michigan Association of the Professions, for by working together, the professions may be able to show to the public that the professional man is not paid for blueprints, prescriptions, legal papers et al., but rather for the judgment and knowledge that went into their preparation.

Couple that concept with the idea "action without study is fatal; study without action is futile" and the ultimate result must inevitably be the use and appreciation of professions by the public.

Advertisers

THE COVER: Shows portrait painted (1806) by Gilbert Stuart of Thomas Jefferson, only Architect President of the United States (1801-1809); and original facade of Farmington designed (1802) by Jefferson—from the Thomas Jefferson Coolidge, Jr. Collection, Massachusetts Historical Society, Boston, Massachusetts.



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Cinder Block, Inc. 2
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Darin & Armstrong, Inc. 60
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Den Braven, M. 64
Deppmann, R. L. Co. 58
Desco Metals Co. 54
Detroit Brick and Block Co. 36
Detroit Edison ..... 3rd Cover
Detroit Marble Co. 68
Detroit Mason Contractors Assn. 10
Detroit Partition Co. 72
Detroit Sterling Hardware Co. 71
Dunn-Rainey Co 71
Finsterwald, C. A. Co. 11
Fireside Printing & Publishing Co. 56
Forte, G. Co. 62
Four Seazons Window Corp. 56
Freeman-Darling, Inc. 66
Gale, W. D., Inc. 60
Glazed Products, Inc. 34
Grace Harbor Lumber Co. 72
Gray Electric Co. 58
Green, John E. Co., Inc 56
Gussow, Leonard 68
Hafke Brothers 70
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Hamill, N. W. Co. 70
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Hersey's Photographic Arts 36
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Kimball & Russell, Inc. 50
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Maintenance Engineers, Inc. 66
Masonry Institute 10
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Michigan Drilling Co. 64
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Miller Glass Co. 34
Mitchell, John L. Co 70
Modernfold Door Sales Co. 52
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McKinley, O. O. Co., Inc. 10
National Concrete Fireproofing Co. 72
Nelson Co. 64
Nichols Co. 56
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Palmer-Smith Co. 68
Pearson, Fred L. Assoc. 72
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Triangle Electric Co. 48
Trowell Construction Co. 58
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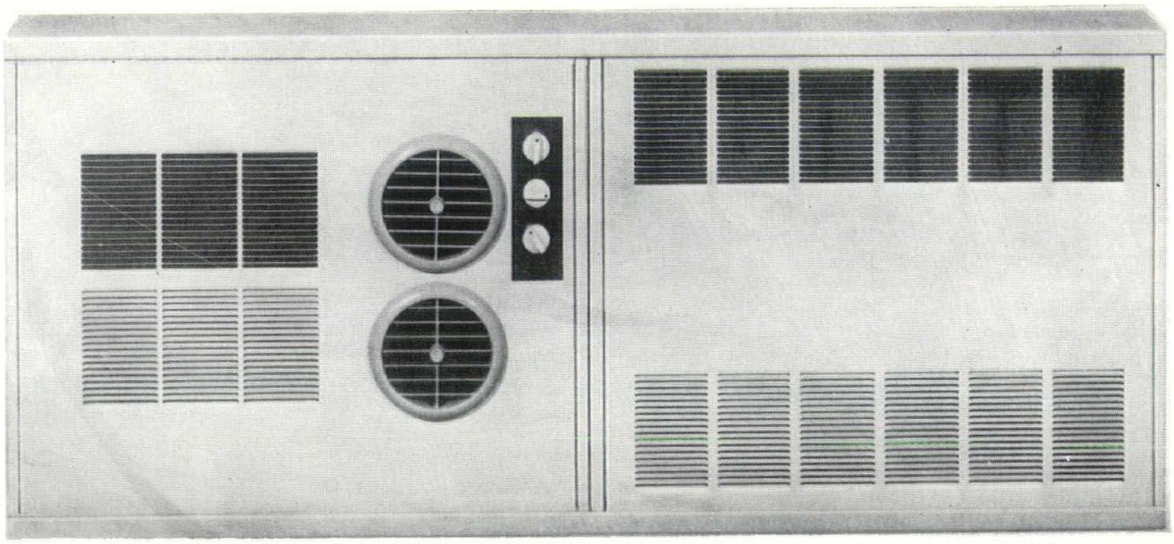

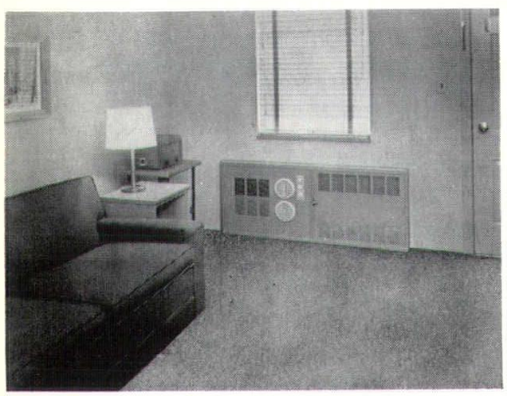

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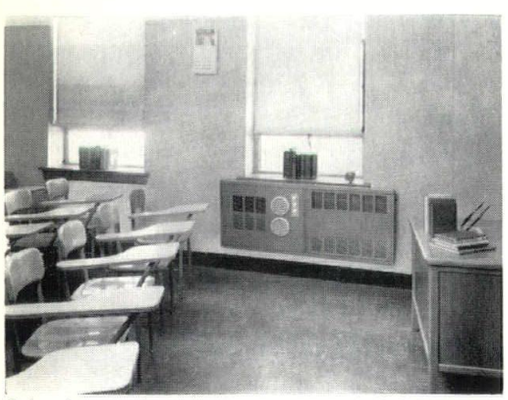

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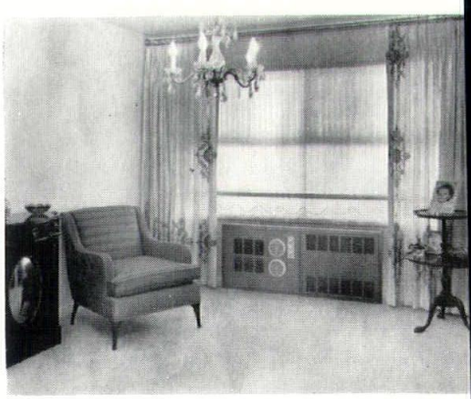

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The project is moving along but must have your assistance if it is going to meet with success and be ready for its scheduled dedication in June, 1959.

Many members and firms have done their share for this worthwhile project—HAVE YOU!!

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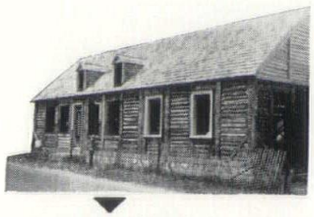

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At the Chicago meeting of the Council Board on November 7th many items were considered each of importance to the operation of Council affairs. Of these possibly the following four items will prove of greatest interest to the profession at large:

1. New Office Space in Oklahoma City . . . During the Minneapolis Board meeting a committee was named to assist the Executive Director in obtaining suitable quarters. This committee consisting of Melander as chairman, Brenner and Mott after a previous survey of spaces available made by Smay, met at Oklahoma City on October 26 and 27. A visit to each office under consideration led the committee to recommend quarters in the Commerce Exchange Building. At the Chicago Board meeting such a recommendation was presented and as a result the Board unanimously approved the location. Director Smay was authorized to arrange for a lease of not longer than two years and to move the Council Offices as soon as possible from Chariton. Moving should be completed during December and after January 1st the new address will be, The National Council of Architectural Registration Boards, 418-24 Commerce Building, Oklahoma City, Oklahoma. However, in the meantime, mail should still be addressed to the Chariton office.

2. The 1959 NCARB Convention . . . As per decision of the Council Board the 1959 Convention in New Orleans will be held on Saturday and Sunday, June 20 and 21 preceding The Institute Convention scheduled for June 22 to 26th. Council Convention headquarters are being arranged at the Monteleone Hotel. Doyle Harvey, President of the Society of Architectural Examiners who attended the Chicago Board meeting reported plans well under way promising a most enjoyable Society program.

3. Council Public Relations . . . A committee consisting of Brenner and Paderewski presented a comprehensive report pointing to a long range program of public relations. One phase of this program, the closer liaison between the Council Directors and the Member Boards and with each member of such a Board, has already been initiated by **Interim Report Number One** which was sent all members after the Minneapolis Board meeting. It will soon be followed by **Interim Report Number Two** dealing with the Chicago meeting and it is planned to continue such Reports so that members may be in closer touch between the annual conventions than has heretofore been the case.

Another recommendation had to do with the dissemination of information relative the NCARB to reach the members of the architectural profession, the construction industry and the general public. Some accomplishments in various architectural publications were reported but especially in the Monthly Bulletin—National Architect. Present at the Board meeting was Talmage C. Hughes, FAIA, Editor and publisher of the Bulletin and discussion pointed toward a better coverage if Council officers and directors would assist in furnishing materials.

4. Committees For Current Year . . . Executive Director Smay reported on the standing committees as authorized by the new By-Laws. These committees had been selected at the Minneapolis meeting but publication of personnel was purposely withheld pending acceptance on the part of each chairman and committee member. Such acceptance having now been obtained in each case, the following list is released:

Documents:
3 year term: Robert B. Frantz—Michigan
2 year term: Yandell Johnson—Arkansas—chairman
1 year term: Irving G. Smith—Oregon
Board Representative: Melander

Finances:
5 year term: Lucius R. White, Jr.—Maryland
3 year term: Donald Q. Faragher—New York—Chairman
1 year term: G. Thomas Harmon—South Carolina
Ex officio: Brenner
Board Representative: Drake

Endowment Fund:
5 year term: Walter F. Dixon—South Dakota—Chairman
3 year term: George L. Dahl—Texas
1 year term: Vladimir N. Ossipoff—Hawaii
Board Representative: Paderewski

Examinations:
3 year terms: Fred L. Markham—Utah—Chairman
Roger C. Kirchhoff—Wisconsin
Malcoln D. Reynolds—California
2 year terms: Edward S. Parsons—Nevada
Frank M. Orr—Alabama
1 year terms: Selmon T. Franklin—Tennessee
Walter Antrim—Pennsylvania
Ex-officio: Sherley W. Morgan—New Jersey

Advance Planning:
3 year term: Charles E. Firestone—Ohio—Chairman
2 year term: Clinton H. Cowgill—Virginia
1 year term: Louis J. Gill—California
Board Representative: Berners

Exhibits:
1 year term: Ralph C. Kempton—Ohio—Chairman
1 year term: Earl T. Mathes—Louisiana
1 year term: Casper F. Hegner—Colorado
1 year term: Wendell R. Spackman—California

Licensing:
1 year term: Angus V. McIver—Montana—Chairman
1 year term: John Scacchetti—New Jersey
1 year term: Clinton H. Cowgill—Virginia
1 year term: Wm. E. Burk, Jr.—New Mexico
1 year term: Granbery Jackson, Jr.—Tennessee
Board Representative: Cohagen

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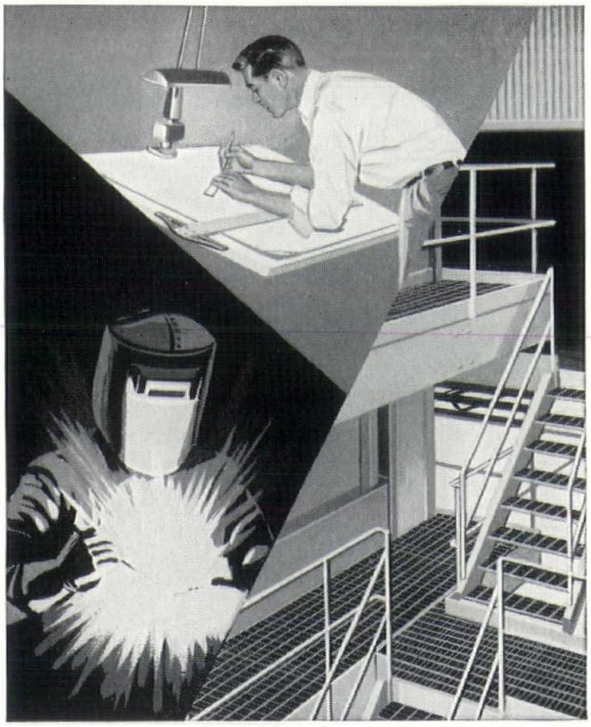

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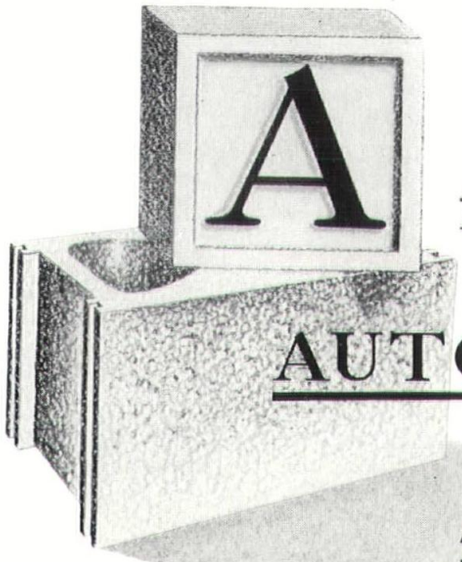

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Definitions of "Architect"

By Talmage C. Hughes, F.A.I.A., Secretary, Michigan State Board of Registration for Architects, Professional Engineers and Land Surveyors

In attempting a legal definition, it is well to first consider what we ordinarily understand the word or term to mean in everyday usage, without regard to legal aspects.

A Circular of Information issued by the New Jersey Society of Architects states :

"Full architectural service includes preliminary conferences, site inspection, preliminary sketches, working drawings, specifications, detail drawings, taking construction bids, letting contracts, interim consultations, supervising construction, approving payments, final acceptance of job.

"The architect does not 'draw blue prints,' as is too commonly believed.

"The architect is the owner's agent. He safeguards the owner's interests throughout the entire period of design and construction of the building. His financial interest in the job is limited to the fee paid him by the owner.

"The architect's fee is paid for the service he furnishes, based on years of highly specialized training and experience, on his integrity and on his ability. It is not measured by the hours of physical labor spent making drawings, writing specifications, supervising construction or in consultation. It pays for knowledge, wisdom and judgment furnished in behalf of his client. The amount of his fee is in direct proportion to the quality and extent of the service he furnishes.

"The best architectural service can be secured only when the architect enjoys the full confidence of his client, who retains him on a comparable basis with his doctor or lawyer."

This would seem to be a pretty good definition of an architect and of architectural practice but, of course, it would not qualify as a legal definition. It was not so intended.

Legal definitions, as used by the state boards of registration, vary widely. In many cases there are joint acts for architects and engineers, in which case definitions of both are necessary. Even where there are separate acts for the two professions, some clarification as to the duties and limitations of each is generally included.

The Alabama act requires separate registration for architects and engineers but permits each to perform the services of the other, provided they are purely incidental to their practice. The act defines an architect as "any person who shall be engaged in the planning or design for the erection, enlargement or alteration of any building or buildings for others, or furnishing architectural supervision of the construction thereof —." Alabama continues by defining a "building" as "a structure consisting of foundations, walls and roof with or without the other parts." We find this in several other state acts, but would not a manhole qualify under this?

A better definition is contained in the Ohio act, which states: "the term 'building' as used in this act shall mean a structure intended for use as a shelter for man and/or his possessions."

The Arizona Act states:

"ARCHITECT means a person who, by reason of his knowledge of the mathematical and physical sciences, and the principles of architecture and architectural engineering acquired by professional education, practical experience, or both, is qualified to engage in the practice of architecture as attested by his registration as an architect.

"ARCHITECTURAL PRACTICE means any service or creative work requiring architectural education, training and experience, and the application of the mathematical and physical sciences and the principles of architecture and architectural engineering to such professional services or creative work as consultation, evaluation, planning, design and supervision of construction for the purpose of assuring compliance with specifications and design, in connection with any building, or site development. A person shall be deemed to practice or offer to practice architecture who in any other manner represents himself to be an architect, or holds himself out as able to perform any architectural service or other services recognized by educational authorities as architecture."

Here are two of the shortest definitions:

Arkansas: "Architect means a person who is technically and legally qualified to practice architecture."

California: "Architect refers to a person who holds a certificate to practice architecture in this state under authority of this chapter."

What more could be desired than to limit the title and practice to those who are duly registered?

Obviously, in defining a word, the word itself should not be used, nor should a derivative of the word unless that derivative has been defined previously.

For the purpose of registration acts, there are two definitions to consider: architect, and the practice of architecture. When one is defined, definition of the other follows naturally. Given a good definition of architectural practice, then an architect can be defined as one qualified to practice architecture.

For instance, a proposed amendment to the Washington, D. C. Act stated:

"The practice of architecture within the meaning of this Act consists of rendering or offering to render services by consultations, preliminary studies, drawings, specifications, contract documents, supervision of construction, or any other services in connection with the design or supervision of construction of any buildings or addition or alteration thereto, whether one or all of these services are performed either in person or as the directing head of an organization.

"An architect within the meaning of this Act is an individual technically and legally qualified to practice architecture and who is authorized under this Act to practice architecture."

In early days the word architect meant master builder, but in later years the architect gave up some of his duties to others. Certainly, since the architect is a professional man, his behavior toward his clients should be taken into account —ethics. This is suggested in the Michigan law, which states that, among other things, an architect "has no prejudicial interest in the project." It is interesting to speculate on what would happen if one were brought into court, charged with practicing architecture without a license and his attorney made the plea that, since his client did have a prejudicial interest, he could not, by our own definition, be held as practicing architecture.

Of course, the purpose of this provision is to prevent one from undertaking to serve as both architect and contractor on a project, which, obviously, could not be properly done, any more than one attorney could represent both sides in a court action.

The primary reason for a registration act is the safeguarding of the public. The fact that certain benefits accrue to the architectural profession is incidental. It is a reasonable assumption that the avoidance of eyesores is in the public interest. Hence, in the Maryland Act, "The practice of architecture as used in this Act shall consist of giving or offering to give for a consideration by any person unbiased advice to clients concerning the selection of site, the aesthetic or structural design of buildings, or any other service in connection with the planning or supervision of construction of buildings where the consultant charges for knowledge and skill and has no prejudicial interest in the project either as owner, contractor or producer of material. Architect, as used in this

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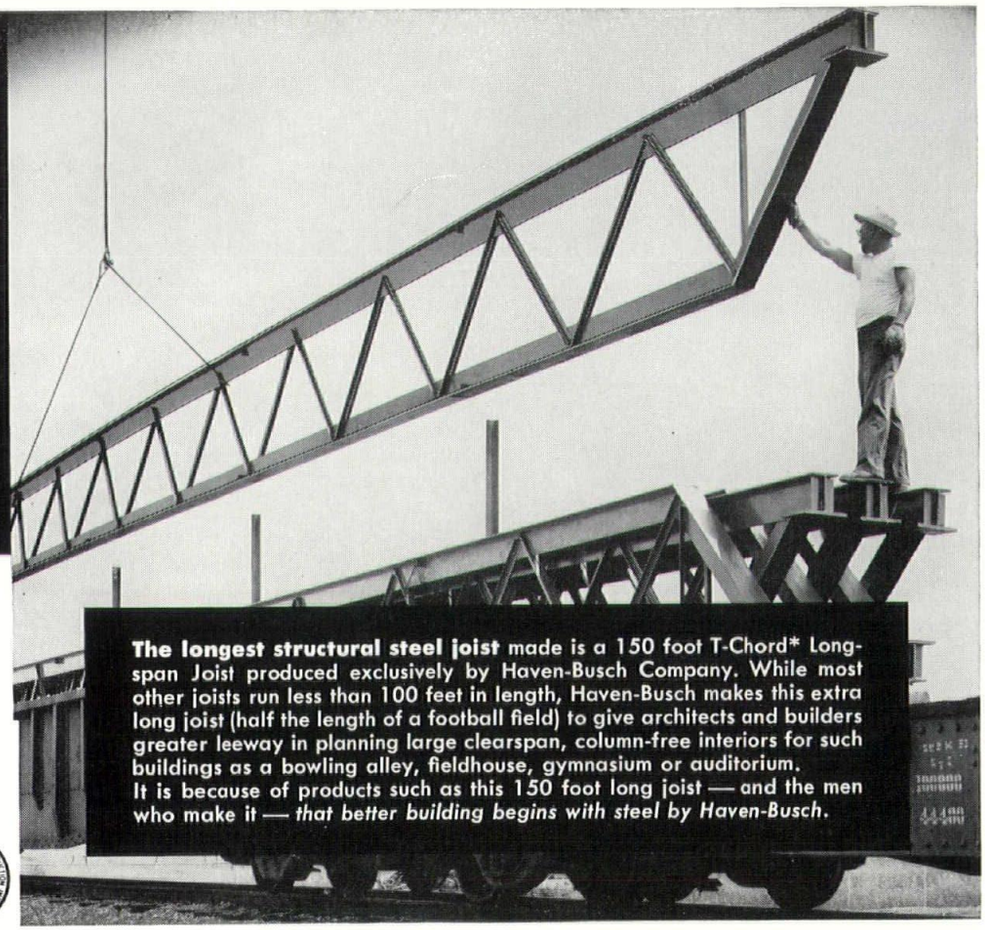

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Act, is defined to mean any person who holds himself out as able to perform or who does perform any professional service, such as consultation, investigation, planning, including aesthetic and structural design, or responsible supervision of construction, in connection with any public or private buildings, structures or projects, or the equipment thereof, or the accessories thereto wherein the safeguarding of life, health or property is concerned or involved, when such professional services requires the application of the art and science of construction based upon the principles of mathematics, aesthetics and the physical sciences. Nothing in this sub-title shall be construed to apply to the principles of real estate practices, such as appraising, evaluating or estimating the values of real estate property in any form."

Significant are the inclusion of the word "aesthetics," "for a consideration . . . where the consultant charges for such knowledge," and "wherein the safeguarding of life, health or property is concerned." It would seem that if one were guilty of performing or offering to perform services for which he is not qualified the offense would be just as serious whether or not he made a charge for it.

The Florida Act had a negative approach; it first listed certain exemptions, such as farm buildings, one and two-family dwellings, work by registered engineers, etc. Then it stated:

"Otherwise, any person who shall be engaged in the planning or design for the erection, enlargement or alteration of buildings for others or furnishing architectural supervision of the construction thereof shall be deemed to be practicing architecture and be required to secure a certificate and all annual renewals thereof required by the laws of this state as a condition precedent to his so doing."

Said Mr. Russell T. Pancoast, President of the Florida State Board of Architecture, "to discover what is in the law, you have to use the back door. The time does not seem right, even after these years, to rewrite this section in order to approach the subject in a positive manner. The Board has been able to function with fairly satisfactory results under the law we now have."

In the Kentucky Act, architect and the practice of architecture are defined only in the Rules of the Board.

REGISTRATION IS IMPORTANT—All of our states now require persons engaged in professional pursuits within their boundaries to be legally registered. Graduates of our schools of architecture, law, medicine, dentistry, and engineering must be so registered if they are to engage in professional practice.

It does not follow that all such graduates who are to utilize their professional training must be registered. For instance, a graduate of a law school, if he elects to do so, may become a worker in a law office. In this capacity, he may do general office work, including research, on cases which are to be processed in court by lawyers. So long as he personally does not offer his services as a professional man, he will not need to pass the Bar examination and be legally registered. Likewise, graduates of medical or dental schools may, if they wish, become aids to registered practitioners without being registered. Almost none of the graduates of these professional schools engage in such work. The desire for professional standing is too great to permit them to become mere employees. Nothing less than professional standing equal to that of any other professional person will suffice.

Engineers are evolving in this respect. Still many young graduates of engineering schools are willing to ignore professional considerations. If a position does not specifically require that they be registered, they are apt to consider that registration is unimportant to their pursuits. Becoming a legal part of a profession has not yet excited their pride to the same degree as is in evidence in other professions. Evolution is rapidly reducing the number of those satisfied to be mere technologists, and the ranks of the professional engineers are rapidly growing. Society is ready to acclaim the young professional, but it will be reluctant to accord him more than he can legally claim.

CHARLES A. BLESSING, Detroit's Director of City Planning, has been elected President of the American Institute of Planners, following an extended period of active participation in the Institute, including two years as President of its Chicago Area Chapter.

Blessing brings to his new position a broad background of education and experience in three related fields of architecture, engineering and city planning. He has a master's degree in city planning from M.I.T., also an architectural degree from the same institution, and a civil engineering degree from the University of Colorado. He has held top planning positions with the State of New Hampshire, the cities of Boston and Chicago, and with the Naval Military Government.

While serving as Director of Planning for the City of Detroit since February, 1953, Blessing has interested himself in other planning activities and education. He is currently serving as President of the Detroit Metropolitan Area Regional Planning Commission, and for the past two years he has been a Visiting Professor in City Planning at Wayne State University. He has worked closely with representatives of the Detroit Chapter, American Institute of Architects on Urban Design and City Planning. He has traveled extensively in this country and abroad, his most recent trip being this year, when he was selected as one of ten architects and planners to visit Germany as guests of the West German Government.

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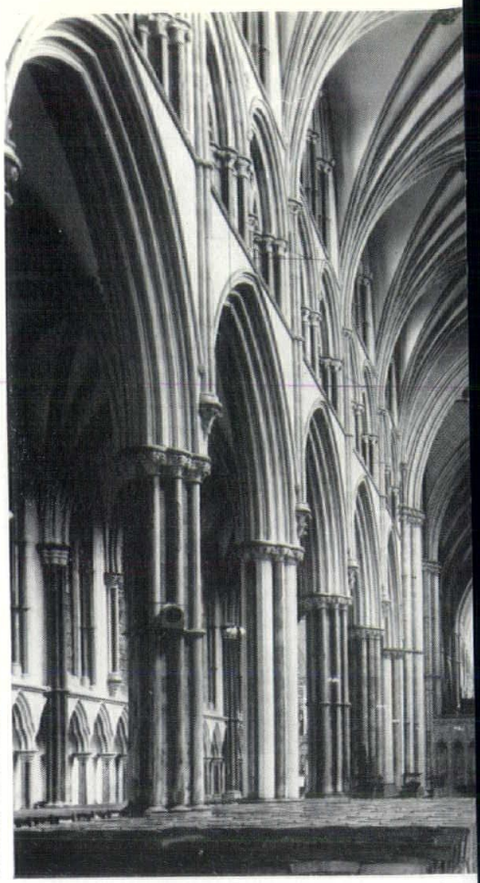
The Times, London

ELY CATHEDRAL—in the Fen District of East Anglia, not far from Cambridge, shows the famous octagonal lantern so seriously damaged by death-watch beetle that it had to be shored up from the central nave.



Camera Press Ltd., London—Gerald Wilson

LINCOLN CATHEDRAL—second largest Goth Cathedral in England, begun in 1075, centr part of West Front and part of first bay of Na being Norman from this date. Main part Cathedral is completion of design begun

OPERATION

On England'

MODERN METHOD

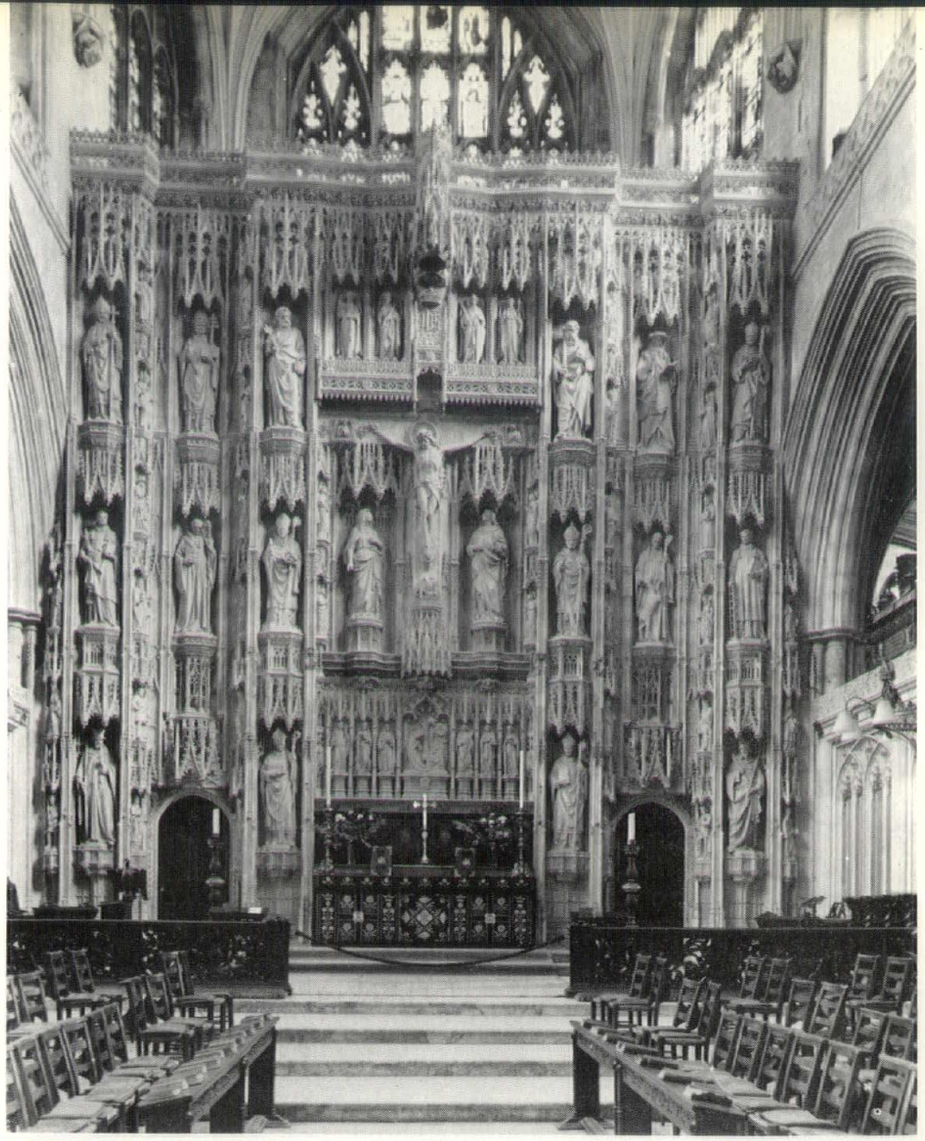
SALISBURY CATHEDRAL—one of England's most famous, with its spire pointing more than 400 feet into the sky over Salisbury Plain, Wiltshire.

The Times, London

By GUY RAMSEY

MANY OF ENGLAND'S CATHEDRALS, like its stately homes, are in need of restoration. Time, weather, bombing — not to mention neglect — all have taken their toll of such superb structures as Salisbury with its sky-piercing spire 404 feet high, triple-towered Lincoln poised on its small eminence among the flat fens, majestic Winchester with its boxed tomb of Canute, massive York Minster with its famous Seven Sisters window.

op Hugh of Avalon (St. Hugh of Lincoln
-1200). Photo shows the Nave, completed
1250, looking east. In the Central Tower
ve the crossing hangs the bell "Great Tom
incoln" weighing 5½ tons.



Camera Press, Ltd.

WINCHESTER CATHEDRAL—showing great Reredos which dates from 1450, mutilated during Reformation but restored in recent times. Winchester was the ancient capital of England; Egbert, first king of all England being crowned here in 827. Winchester has had a Christian bishop since 674. The Cathedral, dedicated to St. Peter, St. Paul and the Holy Trinity is the longest Medieval church in Europe and the fifth in area among English Cathedrals (526 feet long). Present building was begun by Bishop Walkelin in 1079. The Nave was transformed from Norman to Perpendicular mainly by William of Wykeham (1637-1404) but actually completed in 1486. The remains of St. Swithin, Alfred the Great, King Canute and William Rufus formerly lay in the Cathedral. Mary I married Philip of Spain here.

ESTORATION

amous Cathedrals

ELP TO PRESERVE THE GLORIES OF THE PAST

At Ripon, in the broad acres of Yorkshire, a child, they said in 1956, could crumble the ironwork of the clerestory windows; hollow buttresses needed to be replaced with solid ones; a quarter-of-a-mile of stone parapets urgently required re-building.

At Gloucester is the God's-house where King Henry III was crowned and where King Edward II was buried. Here William the Conqueror signed the order for the compilation of Doomsday Book.

SCAFFOLDING IN THE NAVE

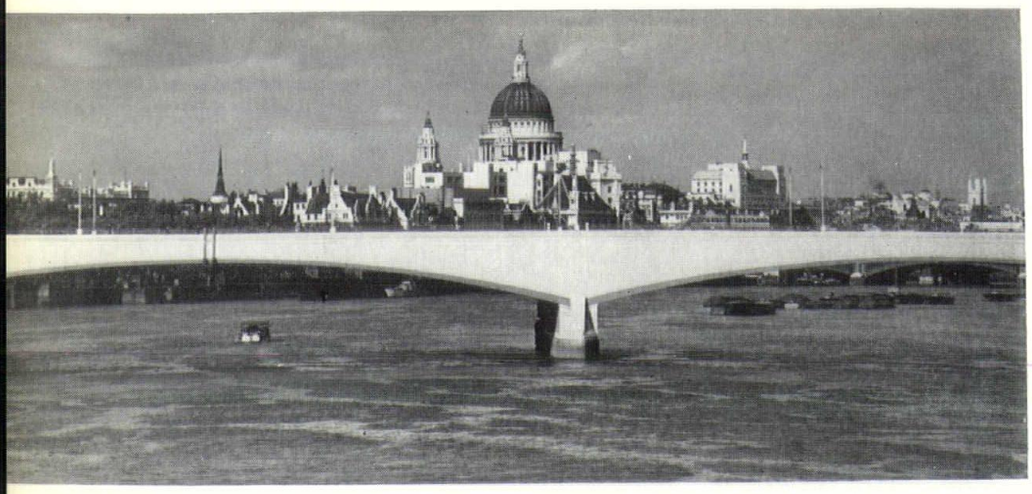
Ely, in the Fen District of East Anglia —the cathedral with an embattled front and exquisite octagonal lantern—was attacked by the death-watch beetle, remorselessly ticking away to imperil the lantern to such a degree that scaffolding had to be erected in the central nave.

Although the great dome of St. Paul's remained a stable silhouette against the flames of the London blitz it was battered by bombs in 1940 and 1941 and needed stupendous repairs. These have been carried out. They include the creation of a canopy over the High Altar which was in the original designs of Sir Christopher Wren and the impressive addition of an American Memorial Chapel. On May 7, 1958 Queen Elizabeth II attended a service to mark the reconstruction and to dedicate the new High Altar.

Westminster Abbey, where Britain's Kings and Queens are crowned, was also damaged in the war, but extensive repairs were most needed to abate the ravages of decay.

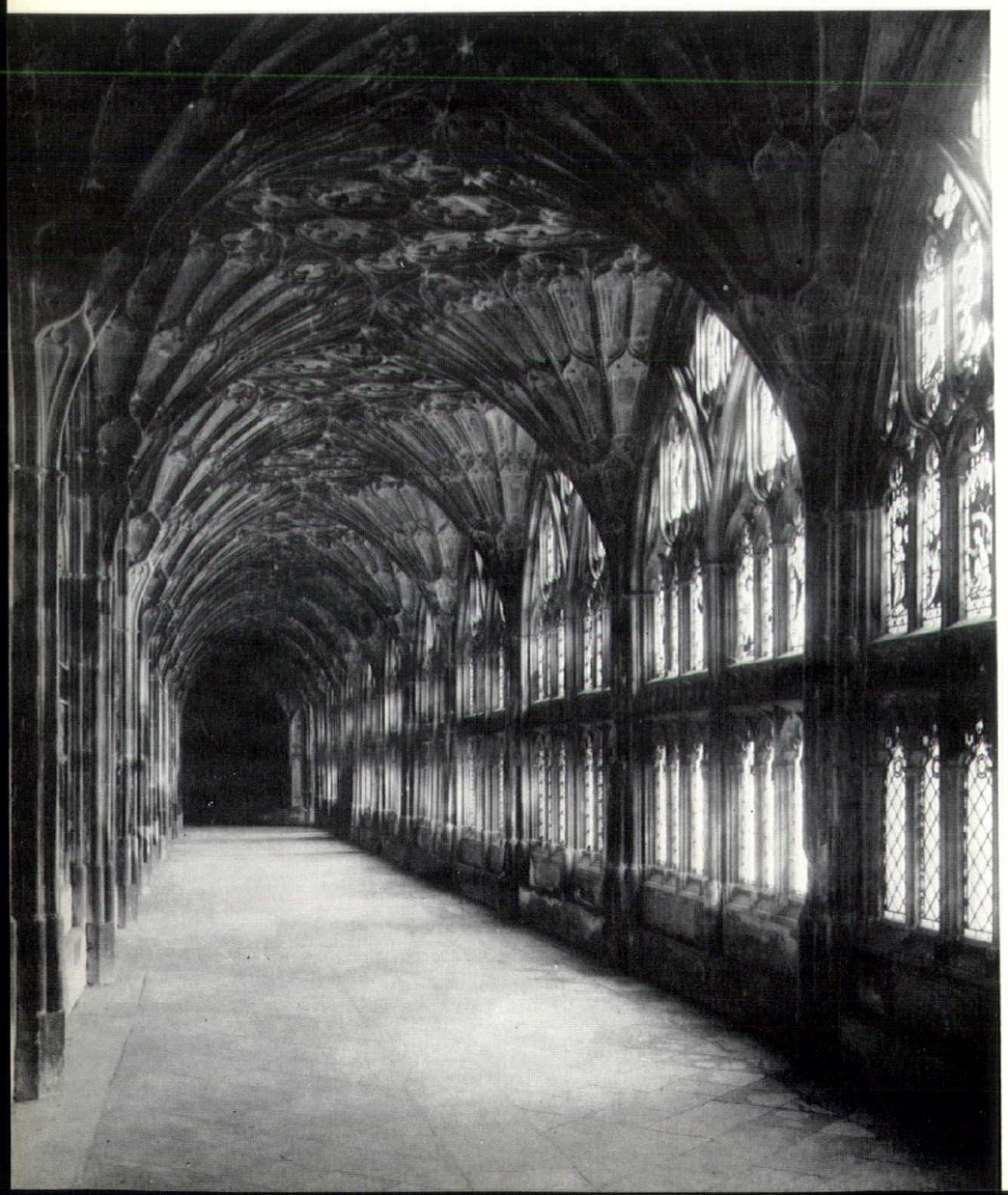
The repair of these mighty buildings is a task requiring a mass of extraordinarily delicate techniques and little-known skills.

The inroads of the death-watch beetle, for example, can be countered only by the most vigorous treatment. Ordinary



ST. PAUL'S CATHEDRAL—London's parish church with its great dome and golden cross which survived the war unscathed although other parts of the building were hit. These have now been repaired. On November 26th U.S. Vice President Nixon attended the dedication of the American Memorial Chapel in the Cathedral, a gift of the British people to commemorate the 28,000 American servicemen who died in World War II while operating from bases in Britain.

GLOUCESTER CATHEDRAL—showing the fine fan-vaulted roof of the West Walk. Here William the Conqueror signed the order for the compilation of the Doomsday Book.



wood-worm is exterminated by sprays which are syringed into the holes bored by the pest. But for the death-watch, mere spraying is not enough; the wood must be treated with heavy brushes which stipple the germicide into the fissures and crannies, so that not a single beetle escapes.

A SKILLED TASK

Dry rot—which is a fungus—involves not only the cutting-out of the crumbling wood immediately affected, but the treatment of the apparently sound timber behind with a blow-lamp to burn out the latent spores. Too little fire merely seals in the seeds of future decay, and only a skilled craftsman, under skilled direction, will know just when to cut the flame.

When it comes to metal-work, the most skilled metallurgists are employed to counterfeit the fine work wrought by mediaeval smiths.

Sometimes the damage to stone work is due to the fact that a crumbling stone, unsuited to its purpose, was chosen by the original builders. Sometimes, modern cleaning—either by steam or acid—strips the natural "skin" from the stone, rendering it susceptible to attack by wind and rain and the chemical action of the air. Sometimes, it is the corrosive products of combustion in an industrial town which have assailed the structure, eroding into crumbling excrescences the crockets that decorate the pinnacles.

One of Britain's best-known experts on church restoration explained that modern science has developed a technique which—if the damage be not too deep-seated—can coat the vulnerable stone with a new, synthetic, but wholly effective and protective skin. But sometimes the stone is weakened beyond repair, and a major work of reconstruction must be undertaken. Sometimes the new stones look white beside the weathered originals; but he does not object to that.

"You will have a Norman gate flanked by a Gothic spire; a Perpendicular window near a round, Romanesque arch—so why not new stones sharply white against the old grey ones? A cathedral is history in stone—and today is history too," he says.

NO EASY TASK

It is no easy task to restore these massive buildings, and a fairly constant inspection of the fabric is essential to avoid some harmless worshipper, or sightseer being felled by a falling piece of masonry.

Restoration is carried out by two methods. (1) By contract, the Dean and Chapter put the project into the hands of an architect or surveyor and then, on his advice, employ a firm which specializes in such work. Or (2) they employ regularly, either on salary or retainer, an expert—architect, surveyor or clerk of works—who will keep constant watch and ward over the fabric.

At St. Paul's, for instance, the clerk of works, Mr. C. A. Linge, has at present a staff of some 50 men at work. He is a permanent official and, in addition to controlling a permanent staff, may also "import" specialists for certain jobs which occur only occasionally.

Many churches—and some few cathedrals—suffer primarily from lack of supervision. "Eternal vigilance" is the price not only of liberty but also of preserving an architectural heritage. Speak to Mr. Linge, and he will explain that, only too often, it is not until water starts pouring through the roof that anyone knows the roof is faulty. "There may have been a leak for months, or for years," Mr. Linge says, "but nobody ever went up to look. When the water does come through, an investigation is made and it is found that all the timber is riddled with dry rot."

FINANCIAL PROBLEMS

Most churches have had little work done on them for many years for a number of reasons. For one thing, the average Briton is no longer a regular church-goer: one estimate puts the regular attendant at divine service at no more than one in ten of the population. For another, the great families, which above all others, used to be the patrons of the Church, have lost the bulk of their resources, mainly through the heavy death duties which have been imposed on large estates for the past 50 years. For a third, the emphasis since the war has been on homes rather than on public buildings.

Even the not very large funds of the Church of England are — properly enough—devoted primarily to improving the status and quality of the clergy and officials rather than the premises.

Yet another element in the difficulties of the great focal churches is this: each cathedral is an entity in itself, virtually autonomous under its Dean. That is why each cathedral launches, when driven to it, an independent appeal, instead of there being a central appeal for all such majestic buildings.

While most of the appeals are successful, it takes time to raise the necessary funds, and time is the enemy of all buildings which need restoration. For Westminster Abbey, 1,000,000 pounds ($2,800,000) was needed to ensure the protection of the building and endow the Choir School—and was fully subscribed. Other appeals launched were by Ripon for 100,000 pounds ($280,000) in 1956 and for a similar amount by Gloucester four years earlier, while Ely needed 60,000 pounds ($168,000) to combat the deathwatch beetle.

Yet, despite the difficulties, shortage of money and the need for highly expert labor, the cathedrals—and the churches—still stand. Patched and shored up, new-timbered and new-stoned, they present still to believer and unbeliever alike a sense of glory.

Camera Press Ltd., London

YORK MINSTER CATHEDRAL—showing famous twin towers on west front. Much restoration work has recently been completed on the building.

RIPON CATHEDRAL—in Yorkshire, as seen from the River Skell. So seriously affected by time was the iron work of the clerestory windows that it was said, some years ago, that a child could crumble it; hollow buttresses required replacement with solid ones and a quarter of a mile of stone parapets required rebuilding.

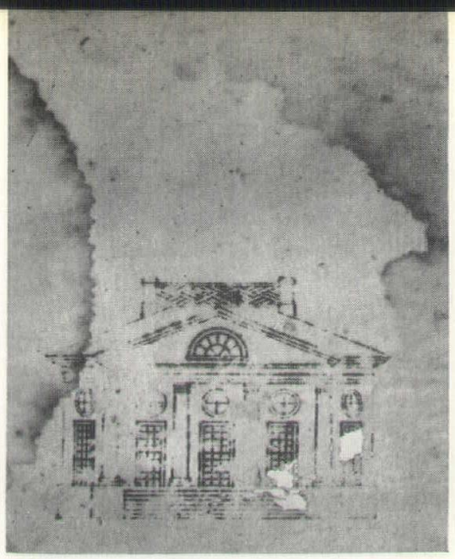
Charles Kiraly

Farmington Country Club Charlottesville, Virginia

ITS LEGENDS, ITS HISTORICAL BACKGROUND, ITS ARCHITECTURAL SIGNIFICANCE

An Historic Old Virginia Plantation Becomes an Architectural Triumph As a Matchless Country Club

By GUSTAVUS ARNOLD



Thomas Jefferson Coolidge, Jr. Collection

ORIGINAL DRAWING—of Farmington by President Thomas Jefferson and "lost" for 125 years, shows octagonal wing, circular windows, characteristic of Monticello, and rooftop balustrade of Chinese fretwork of which he was so fond

"GENTLEMEN! YOU ARE FIRED! Mr. Dinsmore, I'll be obliged if your men will gather up their tools and vacate these premises at once. This house-joining is being poorly done, and furthermore, you are not following my design." Then leveling his penetrating gaze to the tops of the columns before him he added in disgust, "Why even those necks are too small for the capitals." It was the president of the United States speaking. He had just come from the City of Washington.

It was not until 125 years later that the true beauty envisaged by President Thomas Jefferson's design—whose haphazard construction had irritated him so singularly that October afternoon in 1803—was to come to full flower for all to behold.

In the Thursday afternoon edition of the Charlottesville Daily Progress, dated May 16, 1929, there appeared on the front page: "Farmington Country Club Opened Doors with Brilliant Reception and Dance. Old Mansion Designed by Jefferson Becomes Modern Recreation Center with Every Convenience for Member and Guests." And further chronicled: ". . . about 600 guests called during the afternoon (Wednesday, May 15) and inspected the grounds and buildings with their many interesting galleries and tunnels and slave quarters which have been remodeled into charming guest rooms."

It is probably the oldest house in America used as a club and one of the finest clubs in the South. It has a national membership.

The fair domain of Farmington first appears on public record as being part of a royal grant of 4,753 acres on both sides of Ivy Creek in Virginia given by George II of England by Letters Patent under date of March 15, 1744 to landowner Michael Holland of Hanover, Virginia.

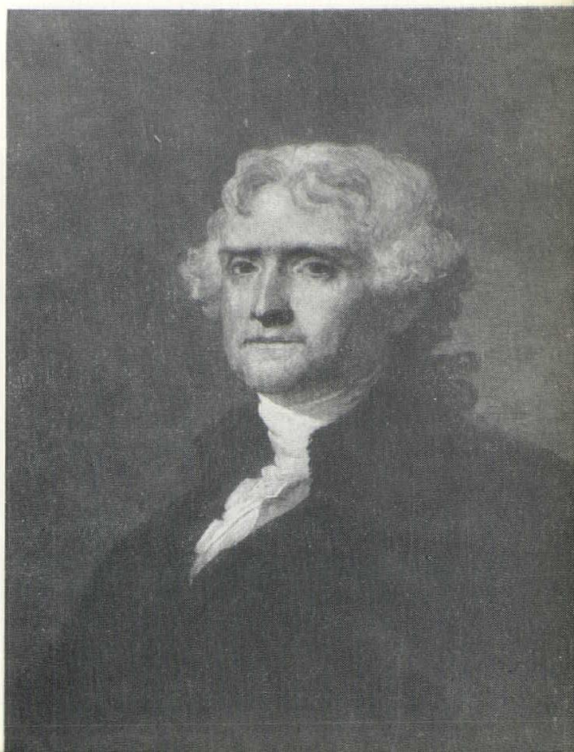
The land was located in the County of Albemarle named after his majesty's Lieutenant and Governor General of Virginia (1737-1754) the 2nd Earl of Albemarle, K. G. and near the community of Charlottesville named for Queen Charlotte wife of George III who lost the American colonies in 1781. The site of Charlottesville was part of the Castle Hill estate of the renowned Dr. Thomas Walker (1715-1794). The town was patented 1737 and incorporated 1762.

On July 25, 1745, Michael Holland sold the property to Charles Lewis of Goochland, Virginia, and on April 7, 1758, he inturn sold it to Francis Jerdone of Louisa, Virginia.

In 1760 Jerdone selected a site for a home on the crown of a slope with a magnificent view of the Blue Ridge Mountains. With bricks kilned from the red clay soil on the property by slave labor he erected a substantial square residence with walls a yard thick. This sturdy pre-Revolutionary War structure has been the nucleus to which have been added the many additions down through the years.

Like many of the landed gentry of his day Jerdone was a confirmed old-guard Tory who took a dim view of "these new rabble rousing revolutionaries." So in 1779, during the height of the American Revolution, his property of 3,000 acres was confiscated along with 52 slaves by the government. The enactment took place at the house of his steward, James Garland, Jr.

Later, however, he made amends for his political indiscretion and boarded the American bandwagon and his property was returned to him. In 1785 he deeded it to George Divers of Philadelphia.



Painting by Gilbert Stuart
Courtesy Alderman Library, University of Virginia

THOMAS JEFFERSON—the only Architect President of the United States, whose enthusiasm for the architecture of Rome gave powerful impetus to the post-American Revolution movement known as the Classic Revival. For American classicism traces its ancestry to Jefferson, who may truly be called the father of our national architecture. His work was dominated by his "historical passion" and his "relish for precision" in whatever he did.

Before Jefferson architecture in the American colonies had not been a profession, it had been a gentleman's avocation. Jefferson made architecture a life long study. He was so enamored with architecture that he wrote to the Comtesse de Tesse from Nimes, France, that he "gazed whole hours at the Maison Quarree, like a lover at his mistress." He was a deciple of 16th century Italian architecture and its chief exponent Andrea Palladio.

"His was a curious mingling of supreme independence and absolute dependence; independence of vision that saw and planned far beyond his time, yet complete dependence, so far as style and detail went, upon precedent and tradition of the past."

Jefferson did not stop with the preparation of drawings. He studied the art of bricklaying, stone cutting, carpentry, cabinet making and iron working and the problems of brickmaking, mortar mixing and building construction.

Not only was he an architectural genius but he was a lawyer, a member of the Virginia House of Burgesses, attended the Continental Congress, drafted the Declaration of Independence, was minister to France, Secretary of State, U.S. Vice President, 3rd U.S President; purchased Louisiana and founded the University of Virginia. He accomplished all this, yet he died practically a pauper because his friends and well-wishers "ate him out of house and home."

FARMINGTON COUNTRY CLUB—showing east approach with slave galleries running south from mansion house. Left to right: Gallery designed by Prof. Edmund S. Campbell, Dean of the School of Architecture at University of Virginia, with Thomas Jefferson's flying buttressed passage below; next, the old slave gallery in general vicinity of giant Cedar of Lebanon tree, and finally, the Thomas Jefferson portico on the east front of the mansion

A few years before, Divers had made a mad dash from Philadelphia to Charlottesville on horseback to make a down payment on Farmington which had been put up for sale by Jerdone to recoup some of the funds he had expended to get into the good graces of the new government. So urgent was his desire that he rode two to five (the exact number varies as to source) horses to death in trying to reach Charlottesville with Continental paper money before the government should issue National which would make the former worthless. Whether he succeeded in making the deadline and whether Jerdone was worsted in the transaction is not known. However, in 1785 the deed to the property was recorded in the name of George Divers.

Divers was a close friend of Thomas Jefferson and their admiration for each other was mutual. Jefferson while president going so far as to urge by letter (now in the archives of the University of Virginia) dated: Washington, June 23, 1806, to his son-in-law, Thomas Mann Randolph, Jr., that he seek the advice of Divers to prevent a duel between himself and John Randolph.

Divers, in sympathy with Jefferson's desire to found the University of Virginia, was one of the charter members to give a thousand dollars toward its construction after it was chartered in 1819.

Jefferson for years had been designing homes for his friends in Virginia and he suggested to Divers that he could improve the appearance of Farmington by adding a wing on the east front. Divers was delighted. So in 1802 Jefferson designed a plan for the house.

It comprised a stately portico and a large rectangular room with octagonal ends so dear to the heart of Jefferson.

The tall windows were hung with triple sash like those at Monticello, and on the second floor level were nine round windows the sashes for which were ordered by Jefferson from London in 1792 for use at Monticello but because of change in his home plans he had been unable to use.

The work progressed rapidly until Divers became ill and had to be away in search of restorative measures for his health. Jefferson was in Washington and on returning to Monticello on a visit dropped over to Farmington. Jefferson was an architectural perfectionist and on noting that the construction was not being carried out to his specifications fired the workers on the spot. It was his belief that a job had to be done right or not at all.

After that the construction lapsed into years of stalemate, and when Divers died in 1830 it still was unfinished.

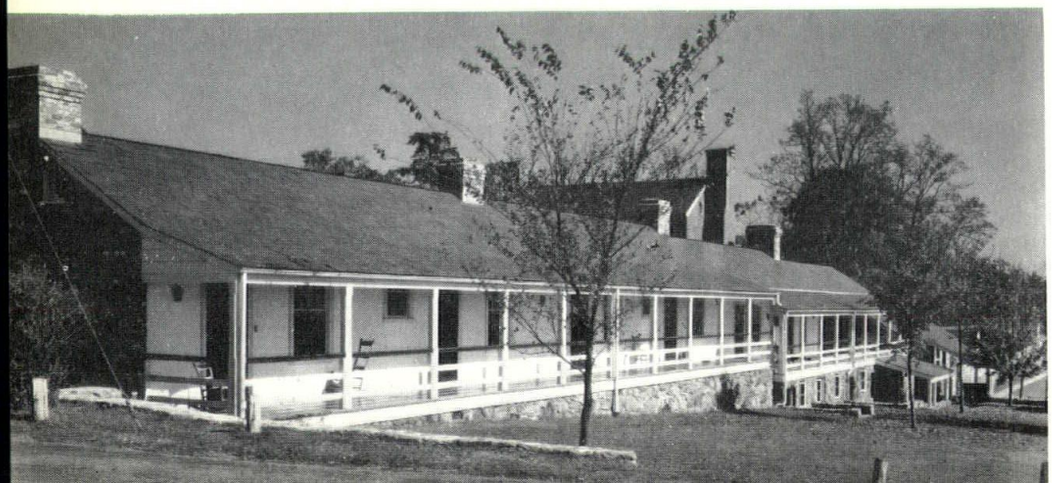
George Divers had married Martha Walker one of the eight daughters of Dr. Thomas Walker of Castle Hill, Albemarle County, known for their arresting beauty and great charm. Having raised no children to adulthood the Divers' heir was a nephew of Mr. Divers by the name of Isaac White whom they had never seen.

Some years before their deaths the Diverses were visited by a young gentleman who announced himself as Isaac White who had come from the lower country to visit his Aunt and Uncle. Being a tall and handsome youth Mrs. Divers was impressed immediately; and being an expert horseman, Mr. Divers was equally impressed, having himself ridden as he recalled from Philadelphia to Charlottesville in no uncertain time.

The Diverses gave a ball at Farmington in his honor inviting the belles of Albemarle's most select and highly placed families.

Needless to say the young ladies, accustomed to a sheltered and restricted life, were completely taken by this dashing and reckless youth with the "devilish black eyes." In fact, their conspiring mothers made every effort to ensnare this heir-apparent to the Divers' fortune as a likely prospect for their daughters' hand. For weeks the entertaining proceeded at a frenzied pace and the parties increased in a rising crescendo as

GOLFERS' GALLERY—facing the sports area and the first tee, was designed by Marshall Swain Wells and is reminiscent of the old slave quarters on the plantation



Holsinger

Walter H. Miller

EAST-NORTH FACADE—showing Jefferson portico and octagonal room built by George Divers (1802-1803) up to first chimney; Francis Jerdone section (1760) up to second chimney; Warner Wood section (1897) up to third chimney, and balance with two protruding wings, designed by Marshall Swain Wells for Farmington Country Club in the 1930's

each mother visualized her daughter as the chatelaine of Farmington.

Then, just as suddenly as he had come the visitor was gone, together with a gold watch and a high-spirited horse which the Diverses had given him, and leaving a long trail of disappointed hearts among the belles of Charlottesville but no wedding band.

A few days later another young man appeared at the Divers' threshold, announcing himself as Isaac White. Confounded by this second introduction the Diverses at first would have none of him until he finally proved to them by his credentials that he was without a doubt the true and only Isaac White, and that the other had been simply a gay imposter. Nevertheless, the Diverses did not give a ball for him. "One, was enough!" remarked Mr. Divers.

By his will, probated June 1, 1830, George Divers devised Farmington to his nephew, Isaac White. White is remembered primarily for his apt ability for going through three fortunes he inherited, during his lifetime.

On November 23, 1840 Farmington passed out of the hands of spendthrift Isaac White and was sold to John Coles Carter who lived on the plantation for twelve years and then sold it to General Bernard Peyton on September 30, 1852.

General Peyton had been commissioned a 1st Lieutenant in the War of 1812, a captain in 1813 and then became adjutant general of Virginia in 1825 and served as such for 18 years. He was one of the founders in 1839 of the Virginia Military Institute at Lexington, Virginia, whose cadets fought so nobly at the Battle of New Market in 1864 during the War Between the States. The General was a business agent for Jefferson in many matters connected with the building of the University of Virginia. Mrs. Peyton came from a long line of distinguished forebearers, her father having been General Moses Green of Liberty Hall, Culpeper, Virginia, who fought in the War of 1812.

At one time it was reported that General Peyton kept a tame black bear in the Jefferson Room area which was now divided into four sections with two rooms and a hall below and corresponding rooms on the second floor.

It was also reported that some of the previous owners had kept cattle in the unfinished Jefferson Room. Whether the cows gave forth better milk under the architectural serenity of Mr. Jefferson's masterpiece is a moot question.

On January 1, 1860 the widow of General Peyton sold Farmington Plantation to Joseph Miller a wealthy Englishman who had been a protege of Scottish inventor James Watt, who perfected the steam engine. Miller made a fortune extending Watt's principles to the marine engine and purchased the estate for his twice widowed sister the beautiful Mary Ann Miller (Wood) Harper.

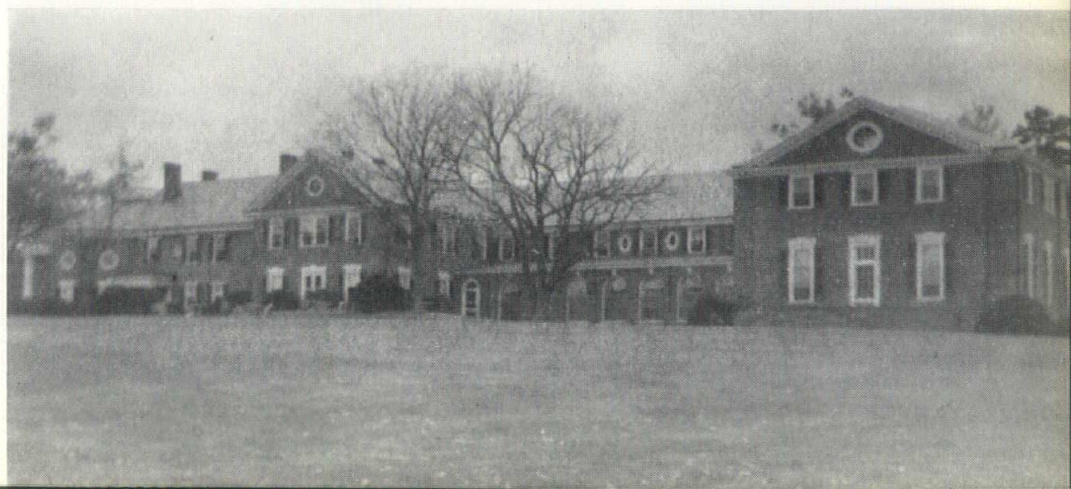
As a child Mary Ann had been a favorite of Thomas Jefferson and had spent many happy days at Monticello. Her father, a captain in the British navy, had been interned during the War of 1812 and had come to Charlottesville where Jefferson was helping him recover an inheritance. As years passed Joseph Miller, who had been left as a child in England, lost track of his sister.

Early in the 1850's one of Joseph Miller's friends, Capt. Wheelright, made a trip to Boston on board a vessel of the firm of Miller, Ravenhill & Salkell. Capt. Wheelright at the request of Miller made inquiries while in America about Mary Ann Miller. Nicholas Trist* and Jefferson Randolph were banqueting together in Philadelphia and during the conversation Trist told Randolph of Capt. Wheelright and the efforts of Joseph Miller to find his sister. Randolph knew Mary Ann having met her at Monticello. Later he met Capt. Wheelright and gave him her address.

When Mary Ann, who was now the Widow Harper, went to England her brother on meeting her said, "No, this is not my sister." But he remembered

*Husband of Virginia Jefferson Randolph

NORTH FACADE—overlooks the 14th fairway and the Blue Ridge Mountains. Recessed section with two protruding wings designed by Marshall Swain Wells contains special activities room, lounge, dining room, solarium, ballroom with tap room beneath; second floor comprises guest sleeping rooms



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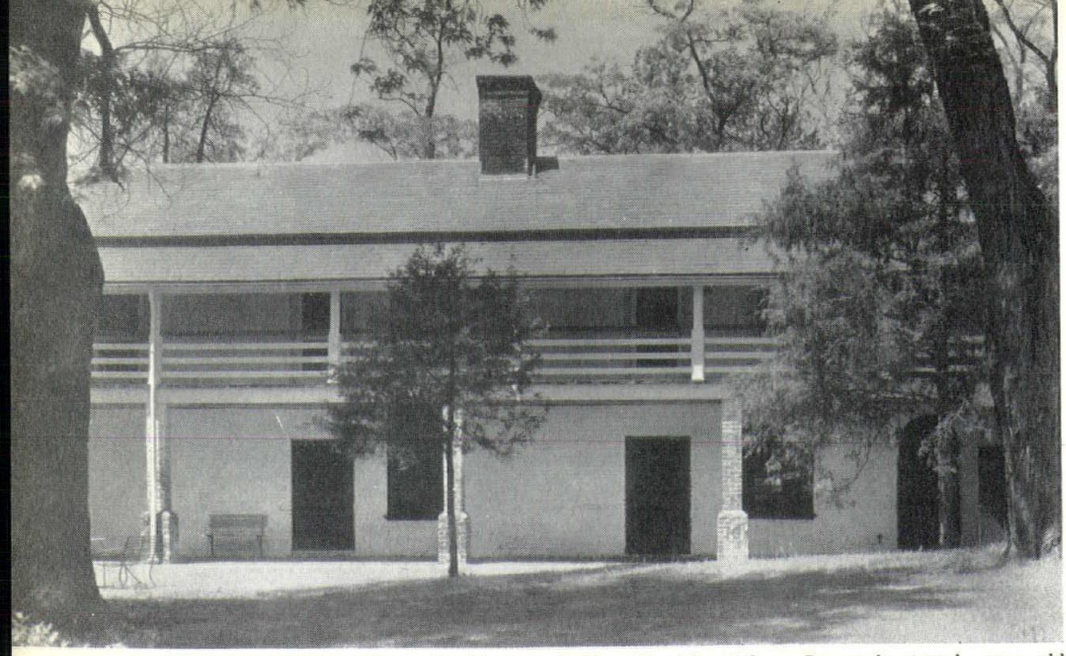


OLD SLAVE GALLERY—Where President and Mrs. Franklin Delano Roosevelt stayed, over old plantation kitchens, below. The slave galleries are one of the unique features of the Club

a birthmark on her arm and asked to see it. She exposed the identical birthmark.

For nine years after her arrival in England Mrs. Harper, whose two husbands had left her poor as a church mouse, was mistress of Oakley House her brother's great mansion, where she entertained such men of letters as Charles Dickens, William Makepeace Thackeray, portrait painter Thomas Landseer who became enamored of her; inventor Robert Stevenson, Sir David Wilke, Antonio Canova, John Gibson the Welsh sculptor, and David Roberts a Scottish pupil of Canova. It was at Oakley House that she gave a coming out ball for Lucilla Wood, her only daughter, by her first husband.

Tormented by gout which the English mists did not tend to alleviate Joseph Miller finally succumbed to his sister's entreaties to leave England forever and come to America to bask in that garden spot of Virginia—Charlottesville and the undulating fields of Farmington in particular, for his remaining days.

A ship load of art treasures was brought across the Atlantic to fill the Farmington mansion to the roof peaks and five thousand bottles of rare French wines were deposited in every nook and cranny in the cellars. Charlottesville, accustomed to elegant living as a common procedure, took one look and gasped for here was Elysian life at its apex.

Farmington was about to experience its heyday as a feudal manor! Joseph Miller passed away and Mrs. Harper now asserted her prerogatives to the utmost. As the chatelaine of Farmington Plantation she became the most important hostess in Charlottesville and Albemarle County as well. Her cotillions, her dinners, her levees were all fashioned after those in England in which she had reigned so supreme. With a retinue of 250 slaves to do her bidding the thousand acre plantation of Farmington pulsed with the gayest life it had ever experienced.

There was an almost continuous parade of carriages and other conveyances streaming up and down the long drive from Ivy Road to the portico of the white pillared mansion where she welcomed or bid "goodbye" in queenly grace.

In the woods were forty cabins for the field hands. All are gone now save one which may be seen today near the Lake Road on the Oak Forest estate across from the present east entrance to the circular drive at the Club.

While the lot of the field hand was monotonous and laborious the house-slaves, who lived in the long galleries extending to the south from the mansion, had occasion to enjoy participating in the activities surrounding the social life of the plantation.

There was an endless series of picnics on the great lawns under the trees surrounding the main house in the summer and gay parties during spring, fall and winter in the mansion. And although the servants did the work they also felt a part of the family spirit of the occasion.

Needless to say the polished manners of the guests had a way of rubbing off on the deportment of the house servants so that a caste system evolved between those slaves residing in the mansion galleries and those in the cabins in the woods. The natural result was that the house slaves looked down their noses with a certain hauteur on their less fortunate brethern in the cabins as being no better than their abodes.

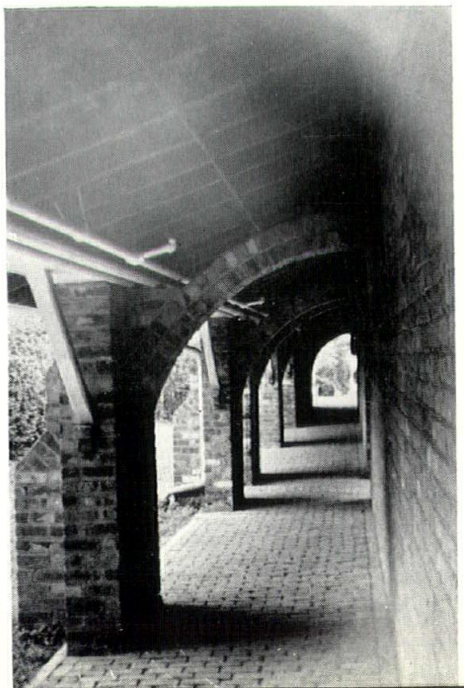
All this was taking place while the distant rumbling of the gathering storm of civil war was heard above the tumult and gaiety of plantation life. During the early years of the conflict Charlottesville was spared the vicissitudes of so many of her sister cities throughout the South. But then it came—like a thunder clap!

It was in March 1865 that General Phil Sheridan's Raiders, devastating the Shenandoah Valley, the "Bread Basket of the Confederacy," and pounding at Waynesboro, broke through Rockfish Gap and streamed across Virginia to help Grant at Richmond.

Coming down the Ivy Road one foraging party of horsemen turned in at

GOLF COURSE—Seventh fairway from 8th tee shows beautiful rolling terrain of Farmington. White pillared home on hilltop in background belongs to Trent Terry and first to be built after formation of Club

FLYING BUTTRESSED PASSAGE — Designed by Jefferson, leads from old slave gallery to old stone stables, now men's locker rooms, facing sports area and first tee



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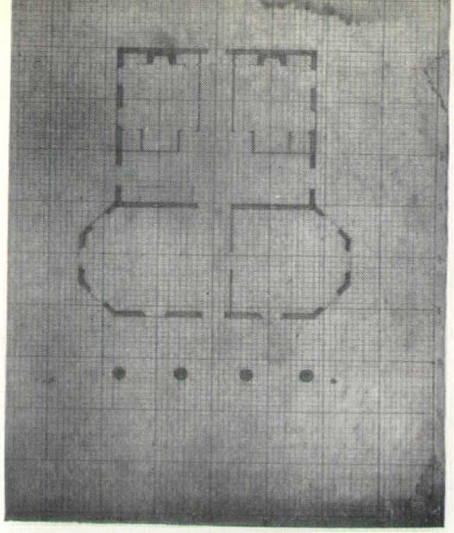


Great-great-grandson, Thomas Jefferson Coolidge, Jr. Collection

ORIGINAL FLOOR PLAN—Designed by Jefferson for George Divers in 1802 and "lost" for 125 years

NORTH FACADE DETAIL—Showing Jefferson wing (1802-1803) and to right, Francis Jerdone section (1760). It was out of window over door entrance that Yankee raider jumped when the Widow Harper apprehended him, during the War Between the States

Farmington the rest continued on to what is now Old Ivy Inn a beautiful colonial mansion built in 1816 and at one time the home of Senator Thomas S. Martin of Virginia and now owned by Noble T. Macfarlane. Here General Sheridan promptly made his headquarters.

Sighting the dust clouds of the oncoming "brigands" racing up the long drive to the plantation house the Widow Harper ordered her darkies to run up the British flag, which had belonged to her Captain father, to the top of the house, since she was still an English subject.

But the raiders paid no heed. Realizing the precariousness of the situation and with visions of a defiled meat house this quick-thinking woman rose to the occasion. Coming out on the pillared portico she graciously welcomed the intruders with her most winning smile and ordered the bewildered servants to throw open the wine cellars and bring up into the light of day the rare vintages for the pleasure of her sudden "guests." Pleased by this show of hospitality the men immediately took to the bottles and forgot about everything else save the solace derived from potent spirits. Noting that the situation seemed well in hand she retired into the house to wait out the lolling revelry that surrounded her. "They'll all be drunk as hoot owls by nightfall," she thought.

But not so one—he must have been a temperance man—for suddenly she was aware of a commotion upstairs — like that in a chicken coop when a marauder has intruded in the night. Two frightened darkies came fleeing down the staircase, screaming, "Miz' Harper, dar's a Yankee in yuh bedroom."

This was just too much, and with a determined look on her face the Widow Harper reached to the wall and unsheathed a sword that had belonged to General Peyton. Gathering her crinoline about her she stealthily mounted the narrow staircase, her eyes blazing with rage.

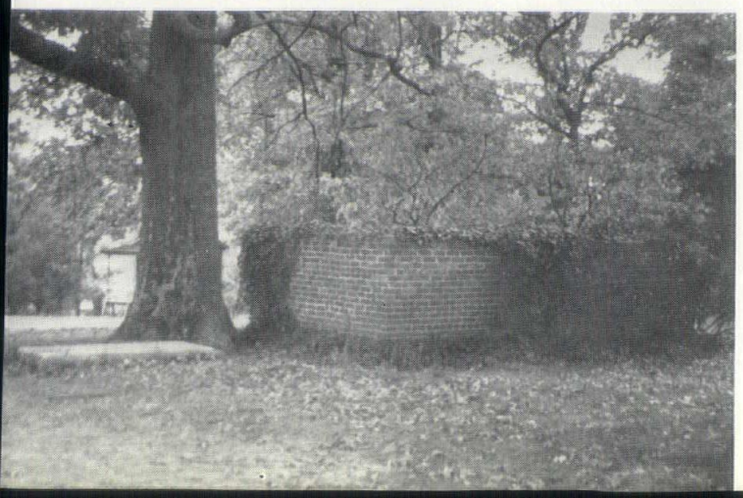
Looking in what is now room 21 at the Club she saw a man bent over a bureau. So intent was the culprit on ransacking that he was unaware of her silent approach. Raising the sword with both hands she swung down with a terrific broadside on his bent posterior. Letting out a blood-curdling yell the man sprang to the windowsill and dove out the open window, returning in a much more hurried manner through what he had so lately come—and landing on the porch roof on all fours, with the Widow Harper's exasperated voice hurtling after him, "No Damn Yankee can come into my house without a proper introduction." And as he clambered down from the roof and looked back in open-mouthed amazement, she finished, "and I'll be obliged if in the future you stay out of my house," and slammed down the window.

Needless to say the meat house on Farmington plantation was the only one in Albemarle County that survived the War untouched by Yankee hands.

In 1877 the Widow Harper died and left Farmington to her son Warner Wood who at 52 was still a bachelor—realizing that two women could not live under the same roof when one was his strong-minded mother. Ten years later he married the beautiful Margaret Lynn Woods who was 38 years his junior.

Their marriage was a happy one and they carried on the traditions of the past by improving the plantation in every way possible, continuing to make it the showplace of Piedmont Virginia. As a Virginia country squire Wood raised blooded Percheron horses until his death in 1902 when Farmington passed to his widow who continued to live there in Victorian

OLD WALLED TOMB—Between the 9th green and 10th tee in ivy-covered graveyard lie George Divers, Martha Walker Divers and their still-born son, Thomas Jefferson Divers. Outside, at base of giant oak tree lies lonely grave of John P. Bryan, Esquire (1746-1803) who died or was waylaid by highwaymen and murdered at Farmington and Ivy Roads, while collecting funds for New Jersey College (Princeton). Later, some of his collection was found sewed in his vest and sent to Princeton. Excerpt from graveslab: "In him truth, honor, conscious worth combined to stamp a virtuous good and perfect mind. We view his life see every act imply 'He who fears to live not will not fear to die.' One well spent moment ends the unequal strife and wafts our spirit to immortal life. Tho he is gone the silent falling tears persuasive speaks he still inhabits here."



Photos by Author

BLUE RIDGE MOUNTAINS—Viewed from north terrace of Club overlooking 14th fairway. It is considered one of the loveliest sights in Virginia

Jack Turner

THE JEFFERSON ROOM—Restored to its full glory as envisaged by Thomas Jefferson after lapse of 125 years. There is nothing at Monticello that can match its magnificence. It is one of the largest drawing rooms in Virginia and embellished with two handsome fireplaces

splendor for another quarter of a century as the dowager of Farmington.

In 1927 the Farmington estate was purchased by Farmington, Inc. made up of fifty prominent citizens who contributed five thousand dollars each for a life membership and turned the property into a country club.

In 1928 the group secured the services of Prof. Edmund S. Campbell, Dean of the School of Architecture of the University of Virginia who discovered the original plans of Thomas Jefferson for the mansion in the archives of the school. Under his tutelage the gallery behind the flying buttressed passage was built and other renovations according to Jefferson's design were restored to their original glory.

Shortly after, the celebrated Virginia architect Marshall Swain Wells was commissioned to continue the reclamation and under his brilliant supervision the first slave gallery was remodeled, the southern gallery facing the golf course was built, the two one hundred-foot swimming pools were added; and the west wings, including the new dining room, terrace room, and later the ballroom and tap room with sleeping quarters above, were added in the 1930's, increasing the public rooms of the Club and augmenting its charm and elegance.

In 1950 the Charlottesville architectural firm of Johnson, Craven & Gibson completed the project, with an entrance and directors offices to the left of the Thomas Jefferson Octagonal and located in the old passage that led to the former slave galleries. A canopied entrance walk was constructed out to the circular drive.

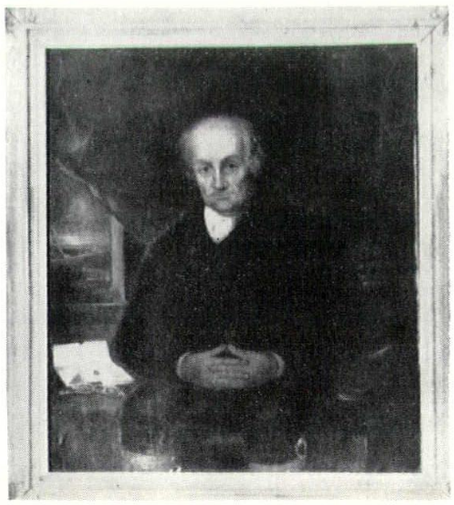
The Jefferson Room had been desecrated through the years by owners who thought they knew more about architecture than the third president of the United States and when the Club took over the property it was necessary to remove partitions that divided the octagonal room in four parts: two rooms and hall below and the same above. When these thick walls were removed, after almost a hundred years, trusses had to be put up at great expense to keep the roof from caving in.

To the arboriculturist the grounds about the Club have an inviting variety of trees and shrubs, including: Magnolia, English boxwood, holly, mountain ash, maple, dogwood, cedar, walnut, Scotch broom, tree bark, oak, crepe myrtle, tulip, and Cedar of Lebanon, with hundreds of mockingbirds among them singing their melodious notes.

Completely surrounding the Club is a

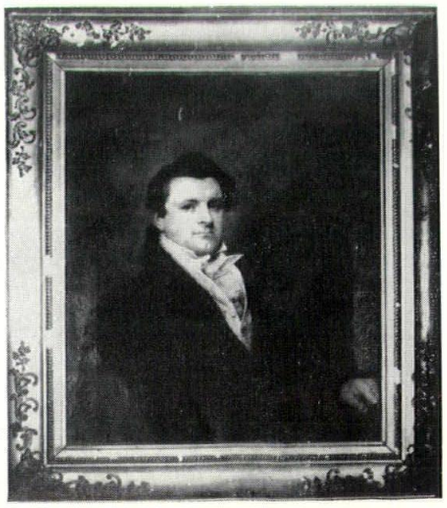
THE TORY OF FARMINGTON — Francis Jerdone (1756-1844) built the first residence on Farmington Plantation in 1760 with a renowned view of the Blue Ridge Mountains for a back drop. Lost the plantation during the Revolution but got it back. A man of keen perception and business acumen, he was very much like the first John Jacob Astor

Painting by Sully
Courtesy great granddaughter Maria Jerdone Kimbrough Bacon, Memphis and great-great-grandson C. Edmonds Allen, New York



THE GENERAL OF FARMINGTON—Gen. Bernard Peyton (1792-1854) who strove to complete the Jefferson wing at Farmington in the face of slave forebodings, and laughed at their superstition that whoever completed the addition without following Jefferson's plans would die. On June 21, 1854, the work was finished and the General dropped dead

Artist Unknown
Courtesy Alderman Library, University of Virginia



THE PATRICIAN OF FARMINGTON—Julia Amanda Green Peyton (1796-1862) in her wedding gown. As the daughter of Southern aristocrat General Moses Green of Liberty Hall, Culpeper County, Virginia, she was prone to cultivate only those who could trace their ancestry back to John Rolfe and Pocahontas (1614)

Artist Unknown—Courtesy Anne Freudenberg, Assistant in Manuscripts, Alderman Library, University of Virginia

Courtesy Granddaughter Mrs. Stephen Philip Holt, Washington, D. C.

THE BELLE OF FARMINGTON—Mary Ann Miller (Wood) Harper (1803-1877) lived a story-book life on the great plantation at its heyday with 250 slaves to do her bidding. As the Widow Harper she was the toast of English society and later carried on her regime at Farmington. She was known for her great beauty and wit. As a child she was a favorite of Thomas Jefferson and spent many happy days at Monticello

Portrait by William Roads—Courtesy son David Joseph Wood, Sr., Charlottesville

THE SQUIRE OF FARMINGTON—Warner Wood (1825-1902) eschewed the hustle and bustle of growing American commerce and industrial life for the quieter and more serene avocation of the country squire who raised blooded horses on his fair domain and loved to tramp through the woods of Farmington. He added on an addition west of his mansion and built the flag stone terrace in 1897

Courtesy son David Joseph Wood, Sr., Charlottesville

THE DOWAGER OF FARMINGTON — Margaret Lynn Woods Wood (1863-1951) was a woman of rare angelic charm and discriminating taste who carried on the traditions of the renowned Virginia plantation as a hall mark to a bygone era. She was known for her great interest in American youth and allowed her home to be a fashionable school for girls in 1912-1913 while sojourning in Europe. She was the last chatelaine of Farmington

sporty 18-hole golf course considered by experts to be one of the best in the country. It was designed and laid out by landscape artist and golf architect Fred Findlay who now is in his 87th year and who still plays a top game of golf almost every day on the beautiful course he laid out so long ago.

So where once was heard the soft melodious voice of the darky singing in the fields there is now the echoing impact of the golf club as it sends the ball zinging through the air over the fairway.

The old stone stables facing the sports area have been made into men's locker rooms. Nearby are tennis courts, putting greens and a golf range for practice shots.

All that remains of a steeple chase course, once the only race course in connection with a country club in Virginia, which ran for two miles around a long knoll on the south of the property, is a long brush hurdle near the entrance to Farmington and Ivy Roads. The soil did not lend itself to proper upkeep so the course was abandoned by the Club some years ago.

Cotillions are held at the Club a number of times during the year and then the social scene takes on an added aura of brilliance with the great rooms of the mansion aglow with the glitter of drop-crystaled chandeliered light and the haunting strains of music permeating the air, and beautifully gowned women and their escorts in black tie dancing the night away.

The Club has as its managing director Raymond Franklin Loving a Virginian who has ably marshalled its course from its inception to the pre-eminent position it holds today as one of the finest clubs in the United States.

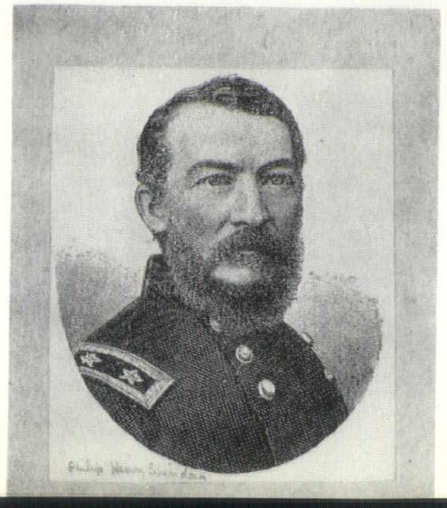
When first you walk out onto the flag stone terrace at the north side of the Club and suddenly behold the rolling peaks of the Blue Ridge Mountains stretched out before your very eyes you have an overwhelming urge to turn about and march right back into the Club and buy a residential site—which, it has been said, many have done just that—and shortly afterwards you have a white-pillared home rising in the confines of the Club estate. The sites sell for about six thousand dollars an acre.

Among those who are members or have stayed at the Club are the late President Franklin Delano Roosevelt and Mrs. Roosevelt who occupied former slave quarters No. 1, 2, 3, and 4 over the former plantation kitchens; Governor Thomas E. Dewey of New York, Lady Waldorf Astor, Mr. & Mrs. Thomas James Litle, III, Marshall Field, Jr., Anne Baxter, motion picture star and granddaughter of architect Frank Lloyd Wright; Senator Harry F. Byrd of Virginia, Actor Raymond Massey, Mrs. William E. Vose, the former Irene McCormick, descendant of Cyrus Hall McCormick who invented the Reaper in 1831 and who divides her time between Farmington and Palm Beach; Adlai Stevenson, Russell Alexander Alger, Jr., who has his own estate near the Club; Langhorne Gibson, son of the noted artist the late Charles Dana Gibson, and David Joseph Wood, Jr., whose grandmother, Mrs. Warner Wood was the last private owner of Farmington.

As someone has written: "The buildings at Farmington are unlike those of any other country club. To understand them, one must know what they were: a big plantation house, with a long wing for the slaves, who produced the luxurious living of another age; with rows of box stalls for horses, and big barns and numerous outhouses, and a covered passage way with fascinating flying buttresses beneath the slave quarters, leading to the box stalls. Except the barns and a number of the outhouses, all this has been retained and transmuted into the luxury of a newer age."

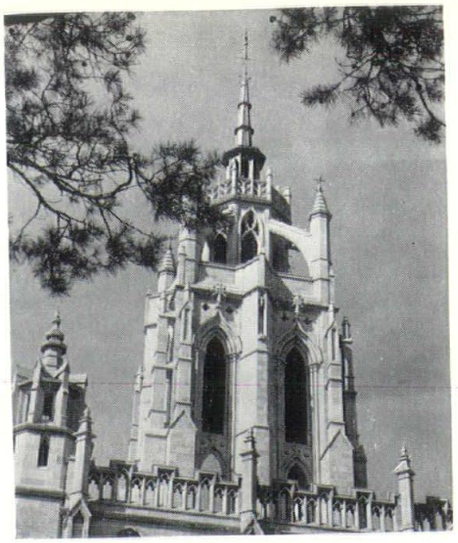
So, if you think you would like to enjoy the atmosphere of plantation life of a bygone era, together with all the conveniences of contemporary American living as we know it today—this is the place.

THE RAIDER OF FARMINGTON — Philip Henry Sheridan (1831-1888) famous Cavalry General known as the "Scourge of Shenandoah" and for his swift and terrible raids in Virginia during the War Between the States. He harassed General Robert E. Lee into defeat at Appomattox but his men were outwitted by the "Belle of Farmington"



Courtesy, Fine Arts, Detroit Library

THE LIBRARY at Farmington designed by Marshall Swain Wells



A 13TH CENTURY ABBEY
DESIGNED FOR
MODERN AMERICA

Kirk In The Hills

Bloomfield Hills, Michigan

A MAJESTIC GOTHIC CHURCH—closely paralleling a 13th century abbey—was dedicated Sunday, November 23, 1958 at Kirk in the Hills, Bloomfield Hills, Michigan.

Perhaps the last of its kind to be built among rolling hills and gardens, the church combines the classic architecture of the Melrose Abbey in Scotland with modern design concepts of warmth and comfort.

Its spire rises above the beautifully landscaped 40-acre country estate, provided by the Edwin S. George Foundation.

Ground was broken Sunday, Sept. 5, 1948.

The cornerstone was laid in 1951, and the first stone for the great nave was delivered on February 10, 1955.

In June, 1957, a fire gutted the interior wood beams and ceiling, and seriously delayed construction on the building due to extensive smoke and water damage to the walls.

Three stained glass windows were ruined and the Under-croft suffered considerable water damage. The tower, which was nearly completed, escaped serious damage.

Kirk in the Hills is built of Indiana limestone — standard buff, light gray, Romona red and variegated—used at random to give the exterior a striking, colorful appearance. In addition, three different types of finishes were used on the stone, which weighed from five pounds to two tons and numbered 47,000 separate stones, each cut to the specifications of a blueprint.

Seven life-like statues are set in niches above the entrance door, depicting the four Evangelists and Moses, Elijah and Isaiah. These are the creations of John Angel of Sandy Hook, Conn., America's foremost medieval sculptor who is now completing works in the National Cathedral in Washington, D.C. and has provided sculpture for the Cathedral of St. John the Divine and designed the famous bronze doors on St. Patrick's Cathedral in New York City.

A 61-bell carillon, the gift of one of the church officers, is expected to be installed in the Kirk in the Hills tower in about a year. The casting of the bells, one of the largest sets in America, is being done at the famous Paccard foundry at Annecy-le-Vieux in France.

The finest craftsmen in the world have been commissioned to produce functional works of art for Kirk in the Hills. This is borne out by the jewel-like stained glass windows which are a veritable "gospel in glass." Rich in Christian meaning—portraying the only complete life of Christ ever done in this medium —these skillfully executed "sermons" are without parallel in America today.

The 34 major windows of Kirk in the Hills took more than 3½ years to complete, being commissioned to two studios in the United States by the minister who made a preliminary trip to Europe to study the great Gothic churches of France and Italy. The windows are double-glazed for protection from the elements, as well as for insulation. Windows are in the colors and general patterns used in the famous Chartres Cathedral in France.

The dramatic interior has stark white walls, dark oak beams, beautifully carved black walnut pews for 650 persons, marble and mosaic tile. Bright red seat cushions provide the primary color accent.

The fireproof ceiling of the main section of the church is of perforated aluminum sheets, with each panel in Presbyterian blue, neatly edged with gold leaf. Near the oak ceiling beams are 13 hand carvings depicting the craftsmen who worked on the magnificient edifice, such as stone cutters, cabinet makers, wood carvers, etc.

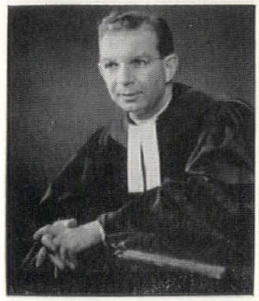
Multi-colored marble floor of the nave, the main altar, as well as the Melrose Chapel altar and Baptismal Font are from Carrara, Italy. The nave ceiling is of gold leaf panels. The tremendous organ compliments the huge size of the church.

Sterling silver altar pieces were especially designed in Gothic tradition. The reredos fabric behind the altar was woven of silk from England.

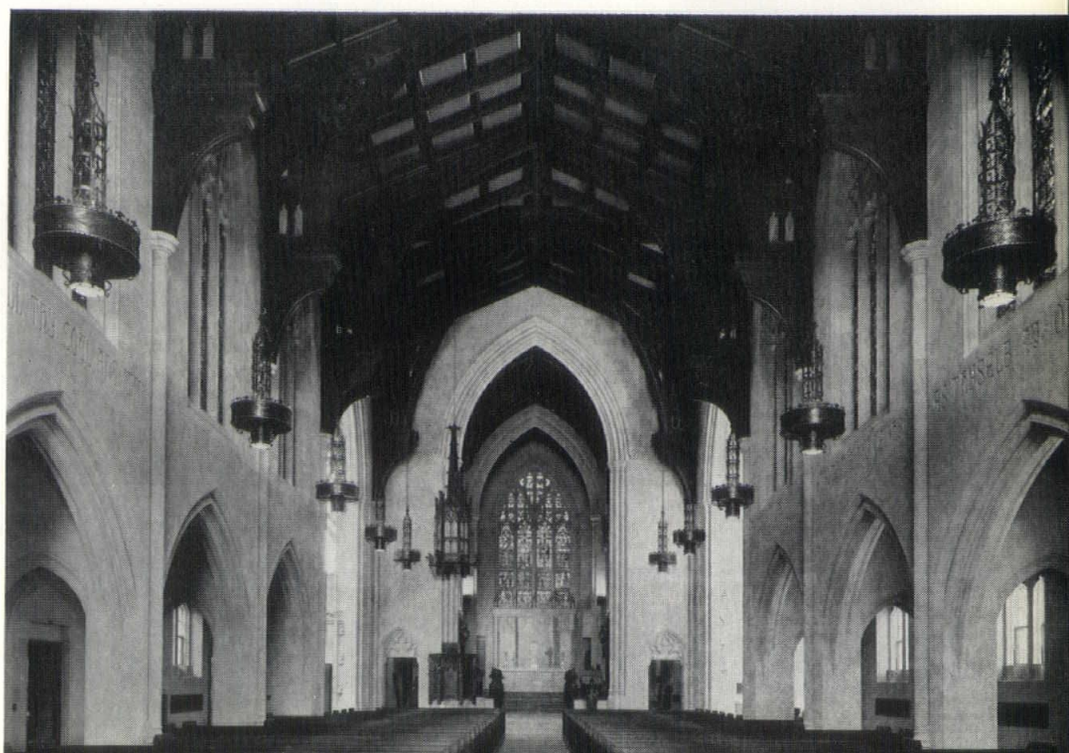
The body of Edwin S. George, principal donor, and an honorary member of the Detroit Chapter of the American Institute of Architects, rests in the crypt beneath the floor of the narthex.

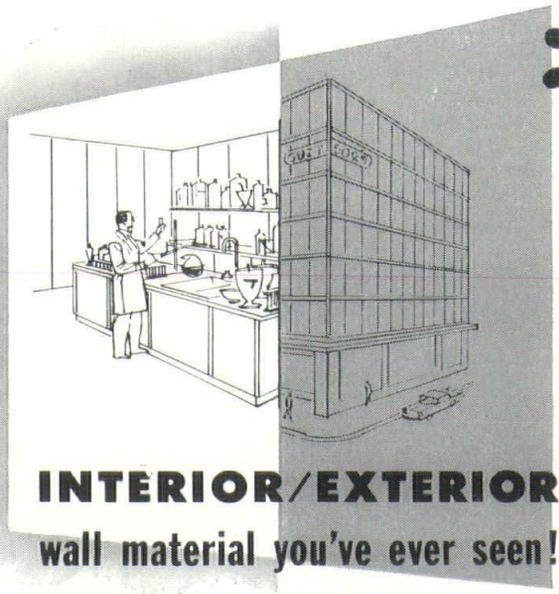
Wirt C. Rowland, who designed the greater Penobscot Building and Union Guardian Building in Detroit, was the original architect for Kirk in the Hills. Mr. Rowland died in 1946 and the Detroit firm of George D. Mason & Co. was engaged to continue the architectural work, under the direction of Eugene T. Cleland, vice president.

This church was designed to create an atmosphere in which people find it easy to experience the presence of God; an atmosphere where people instinctively take off their hats, become silent and reverent; and an atmosphere that will relax a person, then inspire him.



DR. HAROLD C. DEWINDT, MINISTER





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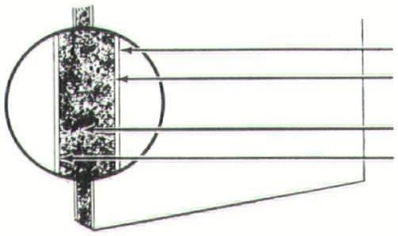

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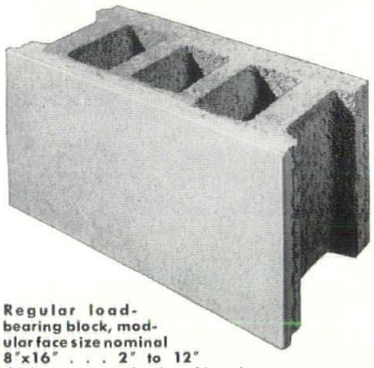

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Saginaw Valley Chapter, A.I.A.

Official Publication of the Saginaw Valley Chapter of The American Institute of Architects

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ARLEEN MONTFORD, Administrative Secretary, 120 Madison Avenue, Detroit 26

AIA
Saginaw Valley

SAGINAW VALLEY CHAPTER held its annual joint meeting with the M.S.A. Board at Frankenmuth November 17th.

The Board met at noon for a luncheon meeting with two of the Valley members to consider matters in that area. They joined the membership for cocktails at 6:00 p.m., followed by dinner.

M.S.A. President, Frederick E. Wigen, introduced the Board and guests. He reported on the Board's recent activities and high-lighted the effectiveness of Public Relations Counsel Hugh W. Brenneman, and Administrative Secretary Arleen Montford in the past year.

When Mr. Brenneman was questioned as to the proper procedure in changing legislation, he pointed to APELSCOR as the first step.

"After careful study and programming, I can be of assistance in helping you present your proposals to the legislators. These laws are very difficult to change. I would suggest that you work closely with this committee and develop a strong program before it is put before the house."

Julius Pochelon, a partner in the firm of Kenower, MacArthur & Co., financial agents, was invited to discuss the financing of building public schools.

He cited cases where careful planning by the school boards proves the fallacy that Michigan schools are becoming frills.

"A few are castles, however, it is easier to sell these to the public than to the school boards," Pochelon reported, and he added:

"If the architect and school board work together with the maximum of effort the financing can be settled in approximately a year. The attorneys and financial institutions welcome help from the architects and school board to expedite this."

Mr. Pochelon reminded his audience that one reason for the school shortage today dates back to the depression.

In the late twenties the depression put school plans back in the files. In 1937 and '38 they were brought out again for consideration but war interfered.

After the war plans were revised and school boards were waiting for lower costs. The longer they waited the higher costs climbed.

The Chapter Board decided to forego the December meeting. They scheduled January 19th for the next meeting, to be held in Bay City.

FRANCIS E. WARNER, A.I.A., of Midland was chosen by the Ford Foundation to make an 8,000-mile tour of the United States to examine T.V. education from an architect's view point.

He was asked to study the open- and closed-circuit television classrooms that are in effect in most of our principal cities.

In Miami he surveyed 300 to 500 pupils in an auditorium with seven 24-inch screens in a closed-circuit situation. In Chicago college courses were being taught to a class of 30,000 in an open-circuit program. Fifteen thousand of these students were taking the course for credit.

Mr. Warner will write his report for the January Bulletin. He will tell about the acoustic problems and how electronic devices have been perfected to break the sound and form baffles.

Colored light, instead of walls, may be initiated to form partitions in the schools of tomorrow.

The following Flint firms have submitted photographs of their most recent projects to be used on the Saginaw Valley Chapter pages: T. Neel Eubank; Gibbs & Tomblinson; A. Charles Jones Associates, Inc.; J. Lauran Kretchmar; MacKenzie, Knuth & Klein, and S. A. Nurmi & Associates, Inc. Franz & Spence of Saginaw have also submitted material.

If you are interested in cooperating in this project to strengthen your chapter news, get in touch with James E. Tomblinson, chairman of this committee.

YOUR HELP IS NEEDED!!

HAVE YOU MADE YOUR CONTRIBUTION TO THE BIDDLE HOUSE RESTORATION PROGRAM? SEE LIST OF CONTRIBUTORS ON PAGE 13 AND SOME ADDITIONAL MATERIAL CONCERNING THE PROJECT ON THE WESTERN MICHIGAN PAGE.

FRANK LLOYD WRIGHT

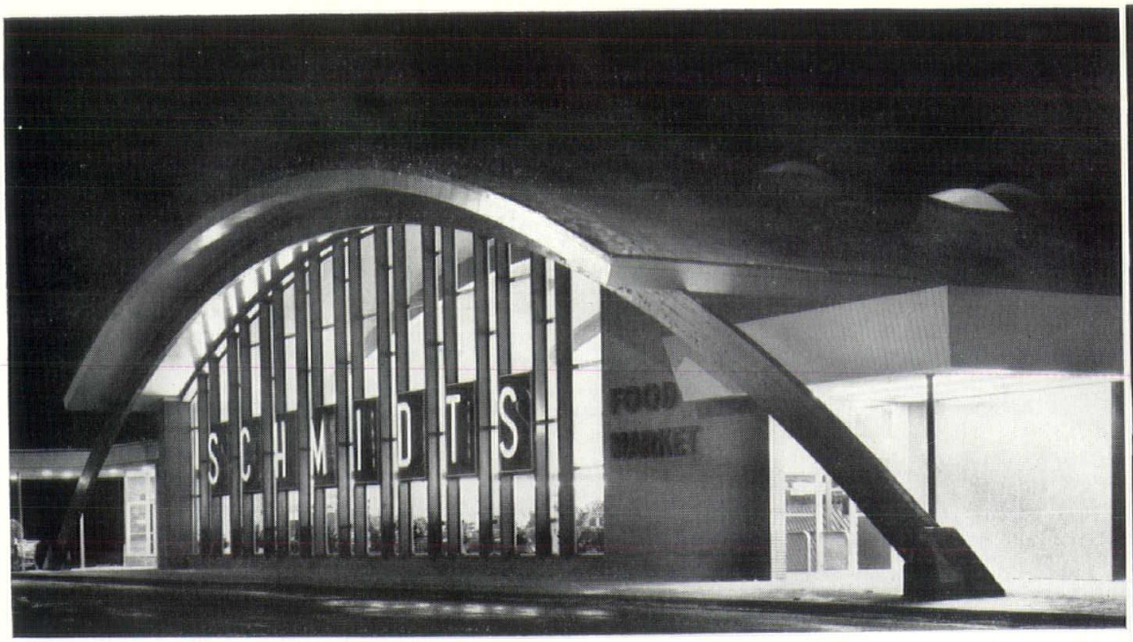
Saginaw Valley will boast one of the finest exhibits of Frank Lloyd Wright's architecture to be found anywhere. The exhibit will open in Midland some time in January.

Recently Mr. Wright invited Alden B. Dow to send a truck to Taliesin to select material from a collection he did not wish to move to Taliesin West. The Dow office feels that the show will be of great interest to architects and the general public.

Mr. Dow studied under Frank Lloyd Wright and has been a close friend since that association. He sent Phil H. Feddersen, A.I.A., and Robert G. Bell with a big truck to pick up the material. Their trip through the Chicago Loop is a story in itself. Mr. Bell will write of the experience and their interview with the world-famous architect in the January issue of the Bulletin.

The show will be sponsored by the Midland Art Association. The collectors' items will include original sketches, mounts, models and notes.

Watch for more information in the January issue. Some of the collection will be shown on the December 30th T.V. program WXYZ—Channel 7, Detroit.



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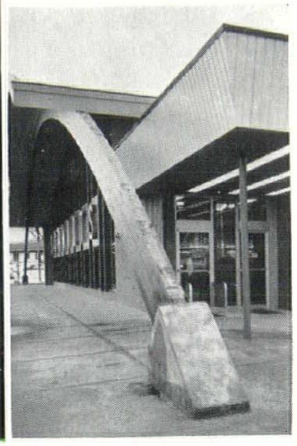

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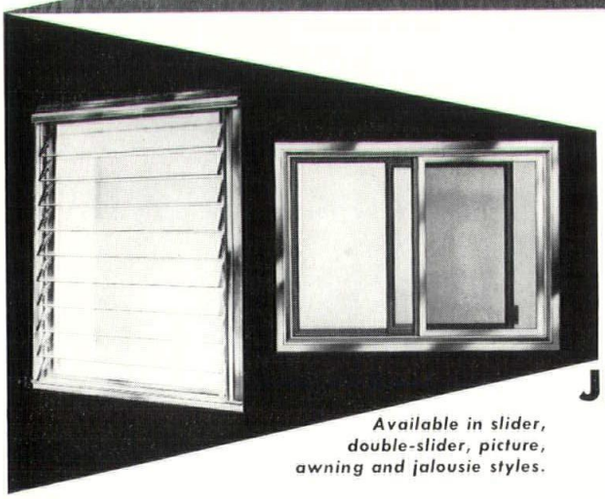

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ARCHITECTONICS

Official Publication of the Western Michigan Chapter of The American Institute of Architects

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WESTERN MICHIGAN CHAPTER held its annual Ladies' Night meeting November 17, at the Pantlind in Grand Rapids.

Fifty wives and members gathered for cocktails and dinner, followed with an address by James Lucas, from the Herman Miller Furniture Co., Grand Rapids. "Charles Eames—the Person" was his topic.

"Charles Eames is not only known as one of America's leading designers. He is also an accomplished photographer," Mr. Lucas told the group.

He showed seven of Mr. Eames' color, sound films. They varied with such topics as Textiles in India, The Eames' Home and an I.B.M. cartoon that was shown at the Brussels Worlds Fair. His Staccato for Toy Trains, set to music, was the most fun.

Mr. Lucas announced that these films are available to groups interested.

Carl Zillmer introduced Mr. and Mrs. Waggaman of New York and the University of Georgia. They have been photographing contemporary art for two years for the Carnegie Corporation Art Survey and joined the Chapter for dinner during their Grand Rapids visit.

The December meeting will be held on the 15th at Inman's Restaurant, Galesburg. The social hour will begin at 6:00 with dinner at 7:00. Robert G. Soeters will be program chairman. Hugh W. Brenneman, M.S.A. Public Relations Counsel, will be the guest speaker.

Last month Western Michigan Chapter's Annual Committee Reports appeared in the Bulletin. Two of these reports were received too late for that issue. They follow on this page.

Practice of Architecture

R. A. Vanderploeg, Chairman

The work of the Practice Committee has been confined largely to the making of recommendations concerning violations of the A.I.A. Mandatory Standards. It is evident that most violations occur because of misunderstanding of these standards. In this connection, it seems pertinent to report answers obtained from Mr. Edward L. Wilson, National Secretary of the A.I.A.

These questions have been raised by chapter members:

Which, if any, of the following items constitute paid advertising? (A) Bold face type in either the white or yellow pages of the telephone directory. (B) Paid telephone listings in directories outside the area covering local telephones when done for the convenience of clients in those areas. (C) Christmas cards. (D) Paid advertisements of congratulatory nature in which reference to the term, "Architect" is omitted, i.e. "I offer my congratulations to the Owners of the New Building for A.B.C., Inc. — John Doe."

Wilson replied:

"If an extra is charged by the telephone company or by the publisher of its directory for bold face type and the architect pays for that bold face type, then it is paid advertising.

"To the best of my knowledge the question of paid telephone listings outside the area covering local telephones, for the convenience of clients in that area, has never arisen before. I think, legally and technically speaking, such paid listings could be well construed to be paid advertising. Of course, if you maintain offices in the other localities which entitle you to free listing by telephone companies in those localities, then, certainly, you could not be held to have engaged in paid advertising. Frequently, commercial enterprises and various businesses maintain mailing addresses in cities in which they expect trade. I do not know of any instance where this has been done by an architectural firm, but it is conceivable that it could be done.

"The issuance of Christmas cards by an architect would not be considered as paid advertising provided that those Christmas cards were Christmas cards and not self-laudatory advertising. Here questions of taste and discretion arise. Many architects send out Christmas cards, which cards are generally more attractive than most Christmas cards.

"Paid advertisements of congratulatory nature, as you described, even if the term, "architect" were to be omitted, would represent paid advertising, if you had paid for the privilege of having the congratulatory note printed."

In addition the Practice Committee was requested to formulate a standard telephone listing for A.I.A. members and a standard A.I.A. advertisement for use by the chapter.

In both instances, the Committee felt that such devices did not represent effective advertising and did not add to the dignity of the profession and therefore should not be developed.

Preservation of Historic Buildings

Warren Rindge, Chairman

Activities of your Committee have centered, during the past year, at the "most historic spot in Michigan" — Mackinac Island. However, other concerns have included an inspection made by your chairman of the old Van Raalta homestead in Holland, Michigan. This property, owned by Hope College, was in dire need of repair and the trustees requested from our committee an opinion as to its architectural importance. An examination was made, in company with Mr. Wichers, then President of the Michigan Historical Commission, and the decision reached that the expenditure of the considerable sum of money required would not be justified either architecturally or historically.

At Mackinac Island, due perhaps in part to the new Mackinac Bridge, there has been a tremendous awakening of tourist interest in that historic location. Because of the foresight and energy of W. Stewart Woodfill, a revenue bond issue was authorized by the last legislature. The proceeds were spent on Fort Mackinac in revamping its museum and creating murals and diorama to emphasize events in its stirring history. The results have amply justified Mr. Woodfill's vision as sufficient gate money has been received to pay off the entire bond issue—and that before the season closed on Labor Day.

Another step was accomplished at Mackinac Island when the Council, under prodding of Mr. Woodfill, adopted a Zoning Ordinance with special emphasis on the protection of a "Historical District." Before building permits can be issued, the design of the structure must be passed upon by the City Architect—which gratuitous job was reluctantly assumed by your chairman.

The architects of Michigan are quite familiar with the campaign that has been conducted under Gus Langius of Lansing to restore the Biddle House on the Island. The project lacks sufficient financing but work is progressing and must be finished by June of 1959 when the dedication ceremony has been set. Money and material is also being accumulated for furnishing this historic house, believed to be the oldest dwelling in the Northwest.

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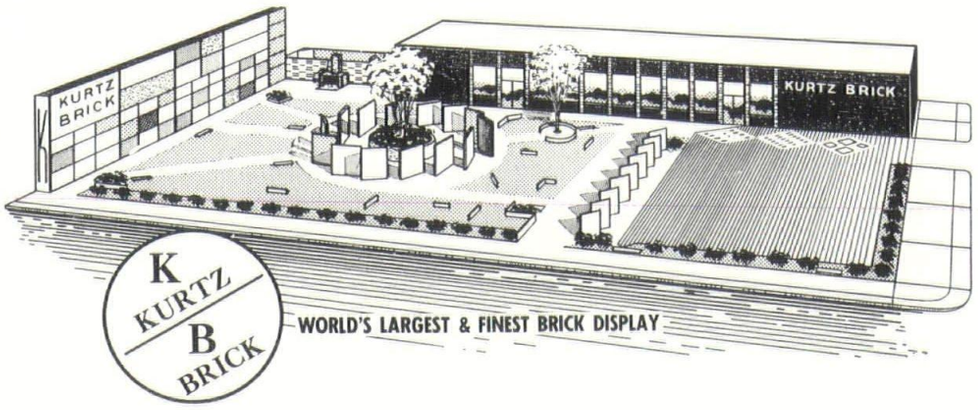

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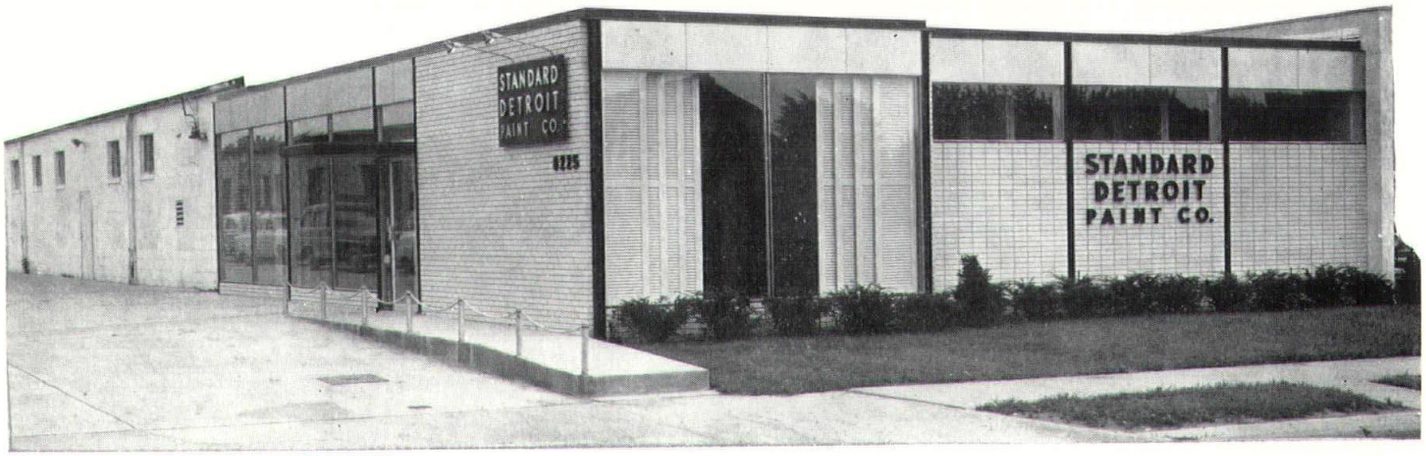

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HEADQUARTERS, 120 Madison Ave., Detroit

DETROIT CHAPTER, AMERICAN INSTITUTE OF ARCHITECTS announces its schedule of meetings for the remainder of the 1958-59 season.

Unless otherwise noted, all meetings are to be held at The Engineering Society of Detroit, 100 Farnsworth Avenue, and will be preceded by meetings of the Chapter's Board of Directors at 4:00 P.M., a reception at 6:00, and dinner at 6:30. Programs are to begin at 8:00 P.M.

The Schedule is as follows:

Tuesday, December 16, 1958—Charles D. Hannan, A.I.A., of Farmington, and Louis G. Redstone, A.I.A., of Detroit, will speak on their recent visit to Europe, illustrating their talks with color slides.

Tuesday, January 27, 1959—Following dinner at ESD, the meeting will adjourn to The Detroit Institute of Arts, where professor Paul Rudolph, Chairman of the Department of Architecture at Yale University, will speak on "The Determinants of Architectural Form." Prof. Rudolph will be the Chapter's guest at dinner. The lecture is under the sponsorship of The Detroit Institute of Arts.

Wednesday, February 18 — Program incomplete.

March — The Chapter will dispense with its meeting in order to join with the Michigan Society of Architects at its 45th Annual Convention at Detroit's Statler Hilton hotel, March 11, 12 and 13. There will be no Board meeting on this date.

Thursday, April 16—Program is incomplete.

Saturday, May 2—Annual Joint Meeting with members of the three student chapters of the A.I.A. (U. of M., U. of D. and L.I.T.), at Lawrence Institute of Technology. No Board meeting will be held on this occasion. Instead a Board meeting will be held at ESD on May 28.

ROBERT F. HASTINGS, A.I.A. was paid tribute in a recent issue of the Saturday Evening Post, featuring Presbyterian Village, a community for the aging, at 25300 W. Six Mile Road, Redford, Mich.

Hastings, Executive Vice President and Assistant Treasurer of Smith, Hinchman & Grylls Associates, Inc., architects for the project, is particularly interested in housing for the aging. He is President of Presbyterian Village and a member of the Metropolitan Commitee on the Aging. He is also President of the Detroit Chapter, American Institute of Architects.

The illustrated SEP article, which continues through five pages, is by Mary C. Van Tuyl, formerly of California, now a resident of Presbyterian Village. The author quotes a folder issued by the Village: "Do not regret growing old. It is a privelege deneid to many."

The author states in the article:

"In June of 1956 I came to Ann Arbor . . . I expected to return to California . . . I attended a conference on aging held at the University . . . and happened to sit next to Mr. Robert Hastings, a member of the architectural firm of Smith, Hinchman & Grylls, which designed Presbyterian Village. I recall a conversation we had. I said I was interested in housing for older people, in a general way. I had my own home in California. When living in it became beyond my capacities, I would probably go to live with one of my six children, paying my own way, of course. . .

"His reply seemed more forceful at the time than my remarks called for: 'If you have any humanitarian notions for yourself or your family, don't do it.'"

The author gives an interesting word picture of her experience on entering the apartment to which she was assigned:

"What interested me most was the fact that one entire side of the room was completely open to a view through a multiple window . . . Had this been a box of a room, or even a larger one with a couple of small windows on an upper floor, it would not have had such attraction as a home for me. The view of trees and sky was as inviting as any one could have had in a previous, well-planned home. And the architect had provided a similar view in every one of the forty-eight 'home' rooms of the three parallel wings of the Sterling Hall residence."

HARRY L. ROGERS of 11668 Forrer Ave., Detroit has become an associate member of the Detroit Chapter, American Institute of Architects, it is announced by Bruce Smith, chapter treasurer.

Rogers is presently completing his professional education while he is employed in architectural offices in the Detroit area.

ANN M. RUTLEDGE, of Detroit has become an associate member of the Detroit chapter, the American Institute of Architects it is announced by William Lyman, chapter secretary.

Miss Rutledge received her professional education at the University of Michigan and is employed as a draftsman with Diehl & Diehl, architects of Detroit.

THEODORE L. DEGENHARDT, JR., of Ferndale has become an associate member of the Detroit Chapter, the American Institute of Architects it is announced by Robert F. Hastings, chapter president.

Degenhardt received his professional education at the University of Michigan and is presently employed as an architectural draftsman.

ELDON P. EROH AND JACK S. FRIEDMAN announce the formation of the new firm of Eroh & Friedman, Architects, at 1715 South Telegraph Road in Pontiac.

Eroh obtained his experience in the offices of Pontiac architects, and he has practiced there for the past four years.

Friedman graduated from the College of Architecture and Design, University of Michigan in 1952, and he had been employed by architects of Detroit and Port Huron.

EXCELLENT OPPORTUNITY for secretary in Architect's office. 8:30 - 5:00, 5-day week. Shorthand, typing required. Only those with experience in architect's or contractor's office need apply. Call PR. 8-8822 for appointment. WAKELY-KUSHNER ASSOCIATES, 21429 Mack, St. Clair Shores.

Detroit Chapter's Next Meeting

DETROIT CHAPTER, A.I.A. Dinner Meeting, Tuesday, Dec. 16, 1958.

SPEAKERS: Charles D. Hannan, A.I.A., of Farmington and Louis G. Redstone, A.I.A., of Detroit.

SUBJECT: Architects Hannan and Redstone will present color slides, with commentary, on their recent visit to the Brussells World's Fair, Israel and other foreign places, including Moscow for the Fifth International Congress of Architects, attended by 1500 delegates from throughout the world. There will also be an exhibition of Redstone sketches, made on his tour.

Moscow Report

By Louis G. Redstone, A.I.A.

Editor's Note: Messrs. Redstone and Charles D. Hannan, A.I.A. will speak to the Detroit Chapter December 16, 1958, showing their slides of Russia and other countries they visited recently.

General View of the City of Moscow.

Moscow this summer was host to the International Congress of Architects — 1500 architects from all parts of the world participated in a week-long seminar and discussions on the theme, "Construction and Reconstruction of Towns 1947-1957".

That the Soviet Government attached great importance to the Congress can be seen from the fact that it opened with great fanfare in the Hall of the Soviets in the Kremlin, that Khrushchev himself spent an hour and a half with the Executive Members of the Congress and that it ended with a Gala Garden Party at the Kremlin for all delegates and their wives.

As is often the case with International Conventions, the American delegation, of about 16, was one of the smallest. If we compare the number with 160 from Mexico, 60 from Cuba, 200 from France, only then can be realize our limited participation. The lack in numbers was partly offset, though, by an excellent exhibit sent by The American Institute of Architects under the direction of Henry Churchill, F.A.I.A., of New York. It embraced public buildings, schools, shopping centers and, what was most important to the Russian people, homes and their interiors: kitchens and anything relating to the daily life of Americans.

Moscow itself in its physical appearance makes a striking impression. The Kremlin, the historical seat of the early czars and now the seat of the Soviet government, sets the character and the backdrop for the entire city. Architecturally, with its walled enclosure, ancient churches and palace wings, it is interesting and significant as an honest expression of the turbulent Russian past.

The Soviet government is preserving and restoring the ancient churches as museums and historical monuments. The Red Square and the Lenin-Stalin Mausoleum just outside the Kremlin wall serve as the main parade grounds and as the burial place of their leaders.

As to a city traffic pattern, it revolves around the Kremlin in as a series of rings. The streets which form the ring are enormously wide. So far, two rings are nearly completed, with the second ring connecting most of the railroad stations which come into Moscow. The railway stations are also connected by the now-famous Moscow subway system. I understand that other large Russian cities, such as Kiev, are following this ring system. Incidentally, this system has been used in other capitals of Europe, such as Vienna, and is being reintroduced in many of our cities in the U. S. A.

The style of architecture the Russians used for the last 30 years has been a monotonous neo-classic. After a flurry of their contemporary period in the late twenties, in which French and American architects took part, the Russians settled down to a classical period. I heard many explanations for that choice. Most agree that it was Stalin's choice. Stalin thought that the classical style would produce buildings which could immortalize him more than the cold ornament-free modernism of the thirties. So Moscow went all out for ornament, columns and statues, and as Moscow went so did the rest of the country, because any sizable project has to be approved by the Moscow Chief Architects' Office. Some people are of the opinion that the ornamented buildings give the average Russian a certain pride of achievement which compensates for the hard and drab surroundings of his living quarters. This may also account for making the subway stations ornate, palatial labyrinths of marble, sculpture and painting.

Be that as it may, there is definitely a strong reaction now among the architects against the classic styles. Khrushchev himself expressed his dislike for the glittering gingerbread and this will no doubt re-echo throughout the Soviet Union. The Russian architects I talked to were just waiting for a nod from the higher-ups to get started with their own creative abilities. The student work (always a barometer of the future) of the Moscow Institute of Architecture already shows the promise of things to come. Many of their projects compare favorably with the student work in our own architectural colleges. Models of proposed building indicate a deep desire to develop new construction methods. The graphic presentation of their projects is excellent. The architectural school also has a research department for the study of natural and artificial light in buildings, and the equipment used is quite scientific. There is only one drawback - none of the creative student work has a chance of acceptance until the government approves the new trend. When gibed too much about their classicism, the Russian architects come back with a question: "What about your government? Why, until a few years ago Washington encouraged only classical for American government buildings." So it was only natural here that, with the government controlling the entire country, the style would be uniform.

In all, there are about 9,000 architects in the Soviet Union (compared with more than 20,000 in the U.S.A.); of these, 1200 are employed in Leningrad and 3,000 in Moscow. It is interesting to note that about 50% of the architects are women.

University of Moscow—a la Wrigley Building.

A Redstone water color of St. Basil Cathedral and the Kremlin Towers as seen from the Red Square.

Every city has its main office under the supervision of the chief architect, which in turn is subdivided into smaller groups of 30 to 60 architects working under assistants. All major projects have to be approved by Moscow. The pressure of the building program is so great that architectural offices often lend their plans to other offices and cities, and the same plans for even large apartment buildings are duplicated over and over again. The Moscow University building (which looks very much like New York's Woolworth building or Chicago's Wrigley building) can be seen nearly duplicated in Moscow and other cities of the Soviet Union, serving different functions.

In the field of city planning and housing, I found the greatest progress. The housing development and rebuilding of Moscow is enormous. If we consider that Moscow started not so long ago from predominantly wooden structures to the present multi-story concrete building and wide boulevards, then we can evaluate the tempo of their construction. Last year 18,000,000 sq. feet of apartment construction and 26 schools were built; this year the program calls for 22,000,000 sq. ft. and 30 schools. We, ourselves, saw row upon row of new apartment buildings going up as far as our eyes could see. The apartments are compact one-and two bedroom types, and there is a long waiting list of hopeful tenants ready to move in. Most of the tenants come from the areas of Moscow condemned for street widening; others come from the movement of the farm population to the city (43% of the population is now urban). The rent is low in relation to the individual earnings; monthly earnings are from 800 to 1200 rubles (a ruble is 25¢—at their rate of exchange), the rent is 50 rubles.

The latest trends in housing are showing evidence of good city planning. The endless rows of apartment buildings are giving way to experimental neighborhood units, complete with schools, recreation parks, small shopping centers and community buildings. Experimental work is being done in the layout of traffic patterns and in the techniques of construction. In all, 16 different types of construction are being used. A joint conference was held with the architects, builders and tenants to evaluate results. Here, where the buildings are subordinated to the general scheme of a neighborhood, much more ingenuity is shown. As a result, the buildings are much simpler and give promise of a more contemporary trend to come.

Another field in which the Russians excel is in prefabrication. Large concrete sections of bridges are being prefabricated, ready to be assembled on location by huge cranes. The same modern erection equipment was evident throughout new construction sites. Conspicuous by its abscence is the construction of shopping centers. The distribution and sale of all goods is performed by the government and the number of stores is limited to the minimum and are located in strategic places. In contrast to the small, unattractive food and variety shops, there is a large department store known as "G.U.M.," which merits special attention. In reality it is a glass-covered shopping center. It consists of groups of 3-story buildings around open courts, interconnected with passageways and protected from the weather by continuous vaulted glass roofs. The stores are ventilated but not air conditioned. It was quite an experience to watch the teeming crowds of shoppers who carried their purchases with them.

Their architectural education is taken quite seriously. A high school graduate has to have entrance examinations to the Architectural School. Besides the general subjects, the deciding factors for his acceptance are his excellence in free-hand drawing, his inclination to design, and mathematics. The Architectural School offers degrees in three main branches of architecture: 1) Housing and Public Buildings, 2) Industrial Buildings, 3) City Planning and Landscaping. The School has a fine library and receives magazines from most of the countries of the world, including the U.S.A.

In my opinion, the vast progress made by the Russians in science, as compared with the standstill in architecture, can only be explained by the fact that, when left alone to develop freely his creative abilities, the Russian is achieving great results; when handicapped by rigid rules of individual, arbitrary decrees and selective tastes of the top leadership, the backward results are evident.

I returned from my trip with the conviction that the oft-repeated saying: "It's a small world," or that the world is getting smaller and smaller does not apply any more. While it is true that the airplane has made distances closer, it also has opened new worlds for men and a realization of how little one knows about other nations, their culture and their life. No books or newspaper articles can equal personal contact and observation.

We arrived in Moscow soon after the tumultuous Russian demonstrations against the American Embassy, in which most of the windows were broken and ink splashed over the buildings, and headlines and posters carried anti-American warnings to get out of Lebanon. But, to our surprise, we found friendly reception and hospitality everywhere we went — on the streets, in buses, from officials of institutions and especially among our Russian architect-hosts.

New Neighborhood Developments include Swimming pools and recreation areas. Modern equipment is used to lift large prefab slabs (in the distance).

LEFT TO RIGHT: Mrs. John Bauer, Mr. & Mrs. Charles W. Burrows, Mr. & Mrs. Donald Lauter, Mr. & Mrs. Edward Theodore Samson. Mr. Samson is immediate past president of DAGL; Mr. & Mrs. Harold Zigmanth and John Bauer

LEFT TO RIGHT: Mr. & Mrs. William Thompson, Mr. & Mrs. Eugene Tumelson, Homer L. Bumann, Mr. & Mrs. Dennis C. Anderson and Mr. & Mrs. Arthur Bassett

DETROIT ARCHITECTURAL GOLF LEAGUE DINNER-DANC

PHOTOS BY PHOTO ILLUSTRATORS, INC.

Mr. & Mrs. M. C. Wolfe, Miss Adeline Gray, Richard Barrett, Mr. & Mrs. James Heaphy, Mr. & Mrs. Arthur Olfs

Mr. & Mrs. Harold Broock (Mrs. Broock came as a Mermaid for the Costume Ball); J. Ivan Dise, Mr. & Mrs. Jack Keightley Monteith. Mr. Monteith is Chairman for the 45 Annual Michigan Society of Architects Convention to be held in Detroit March 11, 12 and 13th at the Statler-Hilton Hotel

THE DEPARTMENT OF ARCHITECTURE OF THE COLLEGE OF ARCHITECTURE AND DESIGN, UNIVERSITY OF MICHIGAN, announces that the George G. Booth Traveling Fellowship in Architecture, in the amount of $1,500 will be offered for the year 1958. Upon request applicants will be issued a form to be completed and returned not later than December 31, 1958. The competition is open to all graduates in architecture of the College of Architecture and Design who have not reached their thirtieth birthday in the calendar year 1958. Students graduating in January 1959 are also eligible. Prospective candidates should write at once to the Department of Architecture, University of Michigan, Ann Arbor, Michigan, for application forms.

Professor Walter B. Sanders, Chairman of the Department, announces that the George G. Booth Traveling Fellowship in Architecture for the following year will be announced early in the year 1959.

LEFT TO RIGHT: Around the table, Ross W. Pursifull, Mrs. Peter P. Petkoff, John R. Koch, Mrs. Pursifull, Mr. Petkoff, Gene Manley, Mrs. Richard G. Pass, Walter LaValli and Mrs. Koch

LEFT TO RIGHT: Foreground with back to camera Mrs. Robert J. Spiegel, Mr. Spiegel, Mr. & Mrs. James M. Power, Mr. & Mrs. Robert E. Beerbower, Mr. & Mrs. Melvin Peden and Mr. & Mrs. Richard L. McClurg

OCTOBER 24, 1958, BIRMINGHAM COUNTRY CLUB

Mrs. Robert Charles Wakely, Orrin Arnold Zerga, Mr. Wakely, Mrs. Zerga, Mr. & Mrs. George William Sommers. Mr. Sommers is a past president of the DAGL and founder of the League

Mr. & Mrs. Bernard Harry Drane, Mr. & Mrs. Bernard King Drane. Mr. Drane is a past president of DAGL; Mr. & Mrs. Anthony Kross. Mr. Kross is Treasurer of DAGL

THE CITY OF HOLLAND, MICHIGAN is seeking a building inspector, it is announced by H. H. Holt, Holland City Manager.

In addition to his duties as building inspector, the executive will be charged with administration of the city's building and housing codes, heating and ventilating codes, zoning and subdivision ordinances, and other assigned duties.

Mr. Holt states:

"The position requires initiative, skill, knowledge of building, city planning, public health practices, and resourcefulness in working with the public.

"To qualify, applicants should have earned a bachelor's degree from a recognized school in architecture, civil engineering or related fields, or have at least five years experience as a building inspector, contractor, or superintendent of building construction."

According to the announcement, the salary range is from $4900 to $5400 annually, with sick leave accumulative to 90 days, six paid holidays per year, social security plus additional retirement benefits, Blue Cross and Blue Shield insurance, two weeks vacation and merit increases.

Applications should be sent to City Manager's Office City Hall, Holland, Mich.

A.I.A. U of M Student Chapter

The latest winners in the Anicka Sketch Competition are John H. Suhr of South Haven, Michigan and Douglas Tuan of Fort Wayne, Indiana. Their respective entries of a branch library and a prototype automobile service station won for each of them 150 dollars toward tuition expenses. These prizes are a continuation of the fund established a year ago by Ann Arbor architect Walter T. Anicka.

Mr. Anicka, a member of the class of 1935, in addition to his practice is very much interested in the promotion of new ideas and concepts from the standpoint of students of today. This sponsoring of the competition has instilled a stimulus to all the students, not only for the prize itself, but for the development of new creative imagination.

The competitions consist of a three-day sketch problem, set up and judged jointly by Mr. Anicka and members of the faculty at the College. The competition is held each semester and is composed of two divisions, one for advanced design students, and the other for students at the intermediate level. The competition was (as always) very keen and the winning solutions showed a good deal of clear thinking and creative flair.

With Mr. Walter Anicka (right) sponsor of the Anicka Sketch Problem Competition are the two winners and their entries for the fall semester, 1958. Left to right they are John H. Suhr and Douglas Tuan. Mr. Suhr won the senior division of the competition with the branch library shown in the background. Mr. Tuan's winning entry in the intermediate division was the prototype service station being held by Mr. Anicka.

Mr. Richard Hamme, of Geiger and Hamme Acoustical Research Laboratories, recently spoke to the students of the College. Mr. Hamme is considered one of the leading men in his field, that of studying materials as effective absorbers of sound. Since he was dealing with laymen, Mr. Hamme confined his subject to the general understanding of basic sound sources, how they are transmitted, and methods of quieting unwanted noise.

Also held at the College of Architecture and Design, was a lecture on "Modern Art," by Mr. James Sweeney, director of the Guggenheim Museum in New York.

The local chapter held its first major meeting of the semester at the home of Professor Ralph W. Hammett, A.I.A. on the evening of October 8th. Following a short business meeting, the group was joined by Professor William Muschenheim, A.I.A. Professor Muschenheim has recently returned from sabbatical leave on which he toured most of Free Europe. In Europe he visited the schools of architecture, preparing a study of the curricula and work of these schools and showing to them examples of work done at our University. Professor Muschenheim led an informal discussion with the members about the European schools, how they compared to ours, and general conditions in Europe, especially pertaining to architecture.

The next evening meeting was planned for November 19, at the home of Professor Walter Sanders, A.I.A., at which Professor Serenus Glen Paulsen was scheduled to give an illustrated lecture and discussion. Mr. Paulsen was appointed to the position of Associate Professor at the College this fall, where he is teaching graduate design. Previously he had served as visiting lecturer to the College and was an associate at the office of Eero Saarinen, F.A.I.A. and

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Associates where the London Embassy and Concordia College were two of his major responsibilities.

Mr. Frederick John Kiesler presented an illustrated lecture to the students of architecture and design on Friday, October 17th. His lecture covered the principles used and methods of execution for some of his work in designing art galleries and discussion on his philosophy concerning design.

Mr. Kiesler's architectural career began in the office of Adolph Loos, working on the slum clearance and rehousing projects of Vienna. This work later made Vienna a model for the world in public housing developments. In the early twenties he gained international recognition with his sets for the Berlin productions of "Emperor Jones." These sets used for the first time in the history of stage craft a combination of conventional construction and motion picture projection. At the 1925 Paris Exposition as architect for the Austrian Theater and Architecture Section his exhibit illustrated principles since found in the Dymaxion House of Buckminster Fuller and the Gugenheim Museum of Frank Lloyd Wright.

Mr. Kiesler came to the United States in 1926 and shortly after won the competition for an experimental community theater in Woodstock, New York. It is still one of the most outstanding and advanced examples of theater design in the world. He has been director of the Advanced Design Laboratory at Columbia University, and for many years scenic director for the Julliard School of Music. He has designed museums and contributed to their collections both as a sculptor and a painter.

On Saturday, Oct. 18, Mr. Kiesler lectured at the Rackham Building, in Ann Arbor. In the afternoon he met a group of students at the Alpha Rho Chi House for an informal discussion. Mr. Kiesler's enthusiasm for a variety of subjects led to a stimulating session enjoyed by many.

The national convention of the National Association of Organizations of Students of Architecture was scheduled to be held at the Octogon in Washington on November 24, 25, and 26; our representative from the University of Michigan Student Chapter, Bernard Remer of Oak Park, Michigan. Mr. Remer is Secretary of the local chapter and a graduating senior.

NATHAN JOHNSON, A.I.A., of Detroit, was featured, among other Negro architects, in an eight-page section of Ebony magazine for November, 1958.

The article called attention to Negro architects' participation on such projects as Idlewild International Airport Arrival Building, the Air Force Academy near Colorado Springs, for both of which Skidmore, Owings & Merrill were architects; churches, office buildings, motels, residences, etc.

The article states:

"Notable among the exceptions to the modern 'school' is Nathan Johnson, of Detroit, who belongs to no particular school, and does not believe in a 'style.' But like virtually all architects, he believes that a building should be designed to fulfill a particular need, should express its function and be built with modern materials in keeping with modern technologies."

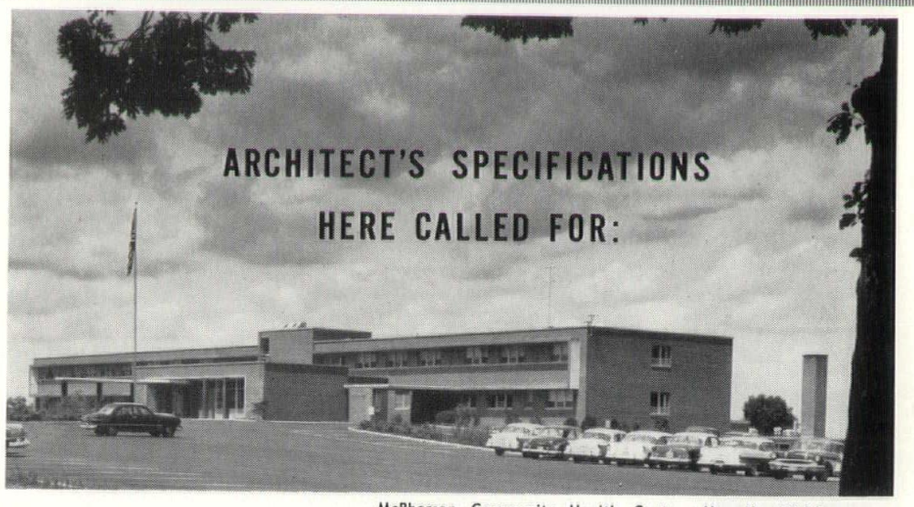
"Johnson's design of the Samuel H. Thomas home on the Detroit River is masterfully fashioned to the natural tidal setting. To many, the ultra-swank creation would be the work of a modenest, but Johnson says his work represents concentration on no particular style."

The article carries a picture of Johnson, and a picture in color of the Thomas home.

Johnson, an architectural graduate of Kansas State College, was employed by Victor Gruen & Associates, Inc., of Detroit. He is now in his own practice at 2041 Lawrence Avenue in Detroit.

HENRY T. McGAUGHAN, of Pontiac, Mich., member of the Michigan State Board of Registration for Architects, Professional Engineers and Land Surveyors, was awarded the Distinguished Service Certificate of the National Council of State Boards of Engineering Examiners at its recent annual convention in Milwaukee, Wis. This is only the second such award ever made to a Michigan person, the first going to C. T. Olmsted, of Ann Arbor, former secretary of the Board.

McGaughan is a registered professional engineer, in land surveying and civil engineering.



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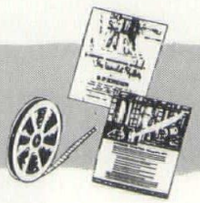

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Women's Architectural League of Detroit

The Women's Architectural League met, November 18th, at the Women's City Club for luncheon and their monthly meeting.

Each November the Projects Committee, under the chairmanship of Mrs. James Morison, receives voluntary contributions towards a project appropriate to the season of Thanksgiving. Two years ago the sum collected went to the Hungarian refugees. Last year the funds formed the nucleus for a very unique project—the purchase of a silver tea service to be presented to the Octagon, National Headquarters of The American Institute of Architects. The Detroit league will be the first group to make a donation to the Octagon under the new rehabilitation plan. Enough additional money has been raised to purchase the tea set and it is scheduled to be presented at the 45th Annual MSA Convention, in March.

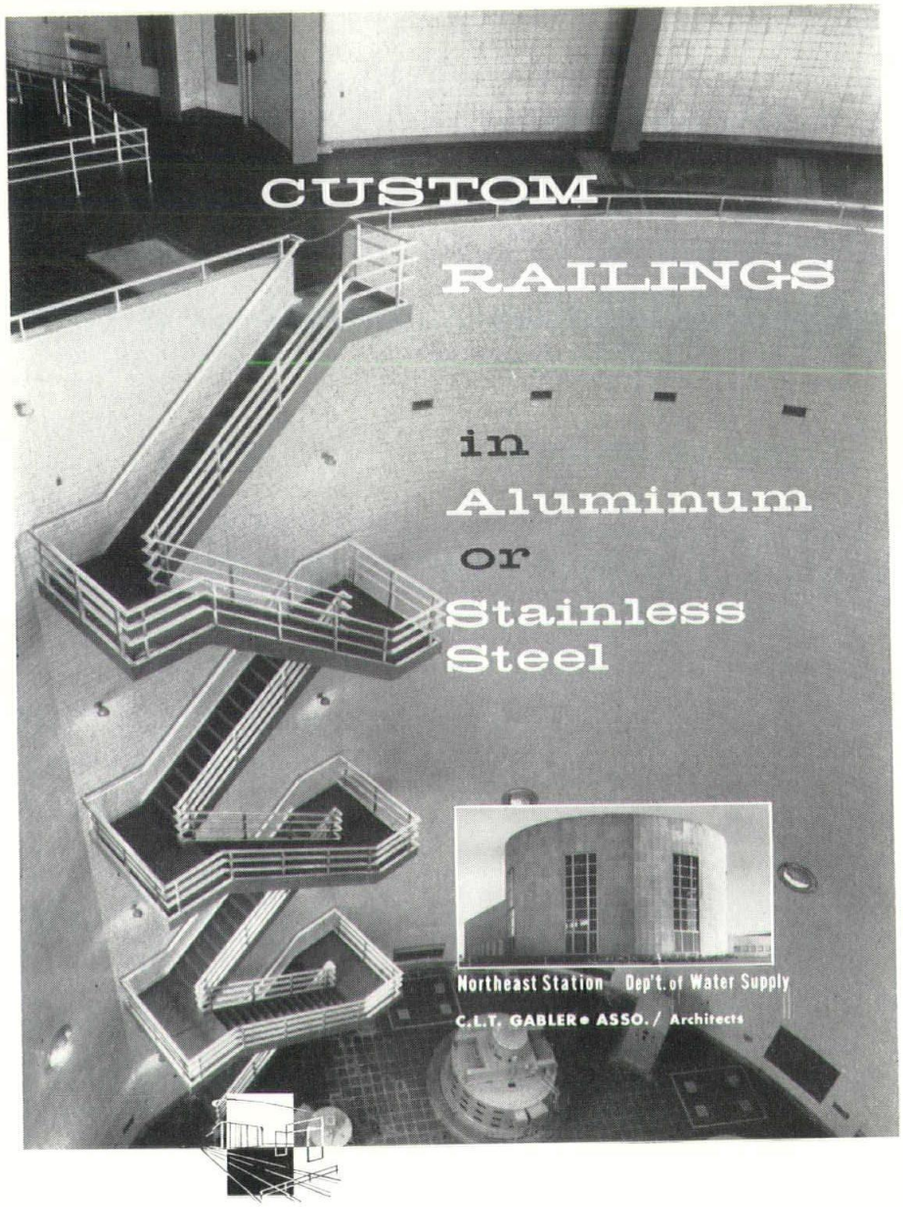
Mrs. Edwin Noth introduced Christopher Dean, Executive Director of CARE in Detroit, and made interesting comments on the program that is to be the WALD Thanksgiving project for this year.

Mr. Dean told the ladies of the great need for more interest in CARE throughout the country to aid friends over-seas that need our help so desperately. As a background for his program he showed the film, "Help Them to Help Themselves."

This year's free will offering is to be used to send three sets of building tools and seed to remote villages of the Philippines through CARE.

Six A.I.A. Centennial Plates were donated to the ladies by the United States Ceramic Tile Co., Detroit, and distributed as door prizes.

MRS. NOTH



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Have You Heard?

By Marie Noth

Mrs. Augusto Bini's father, Professor Lelio di Rinieri, has spent the last three months in Italy, where, in an ancient and colorful ritual, he was invested as Consul General for Detroit by the republic of San Marino.

Mrs. Stephen Page's brother and his wife have just returned from two years of teaching in Japan. They have brought back truly professional pictures in glorious color of such unusual subjects as wrestlers and ukubachi dancers.

Mrs. Ralph Hammett has recently returned from a twelve week tour of Europe. She made Frankfurt, Germany, her headquarters, where her son is stationed, and took side trips from there.

Why not plan on a tour of the Italian Show at the Art Institute following the Musicale at our December meeting?

Christian W. Brandt

Christian W. Brandt, A.I.A., 76, who retired several years ago, died at his home in Washington, Michigan on November 5th.

He was a native of Cleveland and a graduate of Ohio State University.

In 1912 he became associated with the S. S. Kresge Co. supervising the firm's properties and buildings throughout the nation. Among the well known residences he designed was the S. S. Kresge Residence in Detroit. In 1915 he formed his own architectural firm, specializing in industrial plants, theatres and commercial buildings, completing sixty theatres in Michigan. Also all buildings throughout the country for the L. A. Young Spring & Wire Corporation for a number of years.

Mr. Brandt was an emeritus member of the American Institute of Architects, its Detroit Chapter and the Michigan Society of Architects and became registered as an architect in the state of Michigan in January 1916.

Surviving are his wife Elizabeth, daughter Mrs. Alma Archer, and brothers Frank, Howard and Arthur, all of Detroit.

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ADJUSTABLE METAL FRAMING

By WM. SNURE
Unistrut Corp., Wayne, Mich.

Unistrut Corporations adjustable metal framing consists of a metal channel with a continuous open slot dawn the middle of one side, a special spring-held clamping nut and some 1400 varieties of fittings for attachments.

Charles Attwood, the inventor of the first adjustable metal framing and the Attwood system of frame construction, first applied the system to build cubicles for power house switch gear. Since that time, this framing system has proved that it is as new as its latest application, and the list of applications are many.

The adjustable metal framing system branched out naturally and rapidly in the electrical field, and is used by utilities in the building of cubicles for circuit breakers, relay racks, transformer vaults and skeletons for controls and instrumentation. It replaces angle iron sections for ceiling support of cable, conduit and tubing. One of the changes in basic building practice is the use of this framing to hang lighting fixtures. The channel makes it possible to hang a continuous run of fixtures in offices, factories and schools. Savings in this application involves costs of bridging between joists and a reduction of fixture stems and hanger rods.

Unistrut was the first company to produce a continuous concrete insert ranging in length from 3 inches to 20 feet. The insert greatly simplifies the attaching of items on a concrete structure. With these inserts you can provide for all attachments to any concrete structure without drilling into the concrete and the costly installation of cinch anchors.

This framing is used by mechanical contractors to support piping in steam tunnels, banks of piping or tubing that are being hung individually or by trapeze hangers. Pipe rollers are supplied when needed for pipe expansion.

The building field has long shown an interest in finding new structural uses for adjustable metal framing. To keep up with this demand, new uses for the product are continualy being developed in collaboration with other product manufacturers. Along this line another similar and very recent development is the use of this framing for a low cost "flexible partition and room divider." In this case a spring clip moulding, capable of accomodating various thicknesses of wall panels, has been developed as a component part. The moulding slips easily into the channel slot and corner plates conceal the fittings that hold the partition frame work together. This partition system offers the room designed a wide choice of design possibilities.

The Unistrut research staff has been collaborating with the University of Michigan Engineering Research Institute and with the research technicians of numerous other companies producing building materials, in a combined effort to develop an industrially intergrated system of construction. As a result, a flexible three dimensional space frame type of roof truss has been developed. This space frame provides the desired flexibility in roof design as well as a high degree of industrial standardization. Individual parts are small and light enough to be handled by a single worker. They are easily fabricated, easily shipped, easily bolted together in the field. Roofs can be made as wide or as long as the designer may wish provided only that each overall dimension is a multiple of a basic space frame module.

This bolted metal framing has virtually endless application for builders, utilities, engineers, architects, electrical and mechanical contractors, material handling purposes, home owners, and every conceivable kind or size of industrial and commercial organization. This includes offices, department stores, mills, warehouses, chain stores, laboratories, wholesalers and many many others.

Widely used for the above many applications, the systems general acceptance has, in part, been based on simplicity of installation. It can be put together without the need of precision drilling, welding or riveting. Workmen without any specialized skills have found it easy to assemble.

For such flexibility as this adjustable metal framing offers the building trade today, we feel that Unistrut is eminently well qualiifed to solve framing problems.

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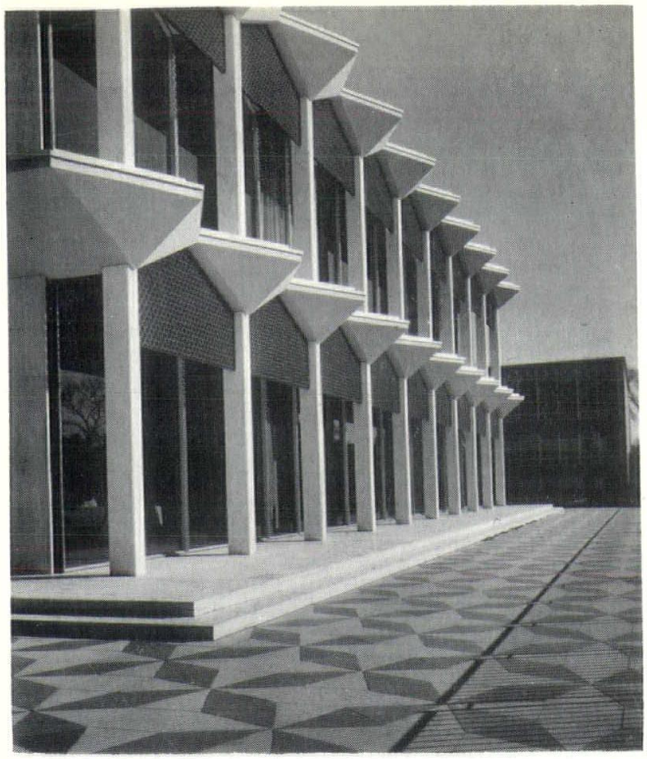

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Products News

MRS. JAMES F. STADLER, Mrs. Ernest J. Dellar (past President of the Women's Architectural League of Detroit) and Mrs. Lyall H. Askew recently previewed Kelvinator's 1959 Line of Electric Ranges at Showcase, Inc. Their enthusiasm for

PHOTO ILLUSTRATORS, INC.

the many convenience and economy features . . . removable oven lining . . . finger-wide push button controls . . . minute minder . . . automatic oven timer . . . raised rim on surface top . . . self-cleaning rod-type broil and bake units . . . pan lid pockets . . . removable porcelain drip pans and chrome trim rings and timed appliance outlet is evidenced in this photograph. These new Kelvinator "Style Mark" Electric Ranges have that built-in look.

WHEN THE SPIRIT OF DETROIT, symbolized by a bronze giant holding man in his right hand and the world in his left, took its place by the City County building, it signified the completion of one of the first phases in the development and beautification of Detroit's riverfront.

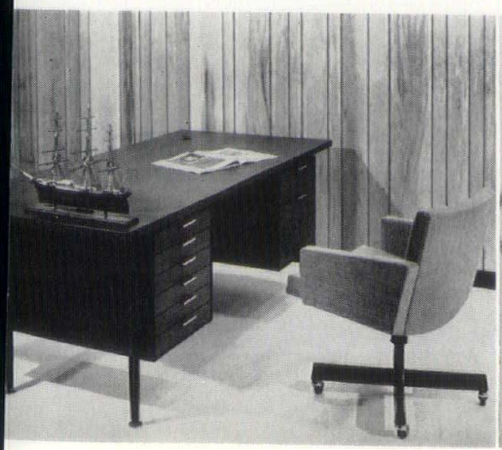
The Spirit of Detroit typifies the magnetic power that draws upon outside sources to constantly increase the city's greatness.

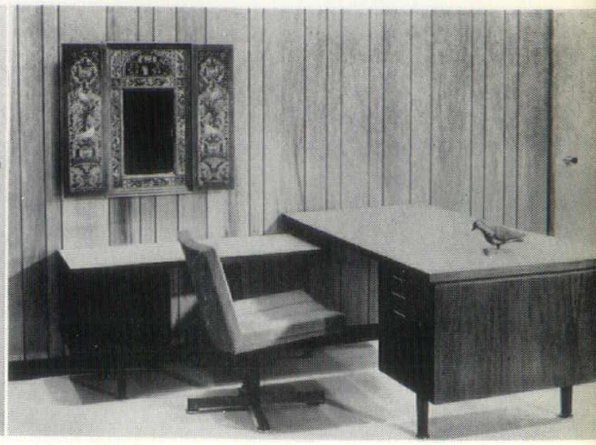
The Moynahan Bronze Co., of Flat Rock, Michigan, noted for ornamental architectural products and their distinctive metal curtain walls, procured the statute in summation of their contract for work on the building. The model and molds were the creation of Marshall Fredericks, considered by many to be the Pheidias and Michelangelo of modern times. Molds were sent to Norway where the statue was cast in bronze—one of the largest since the Renaissance.

The curtain walls were fabricated by Moynahan Bronze from aluminum smelted in mills far from Detroit. Blast furnaces in Pennsylvania spawned the steel, and the men who joined the aluminum, steel, concrete and glass came from the four corners of the United States and from across the sea. Truly, Detroit's spirit derives its strength from within and without.

New John Stuart Architective furniture, shown below, designed by Julien Von der Lancken, A.I.A. achieves broad flexibility of style and function through the use of outside or undermounted legs, flush or overhanging tops, and pedestals in twelve and eighteen inch heights. Innovations in design detail and upholstery technique make for simplicity and pureness of line and a degree of comfort not often obtained in conventional seating. The furniture is distributed by C. A. Finsterwald Co. of Detroit, Michigan.

R. E. LEGGETTE COMPANY, acoustical and building specialty contractors, announces that Robert L. Lindahl, a registered professional engineer, has resigned as the Company's vice president and assistant general manager, to devote his time to research and acoustical consulting, principally in the Detroit area, with offices at 2261 Winthrop Road, Trenton, Michigan.





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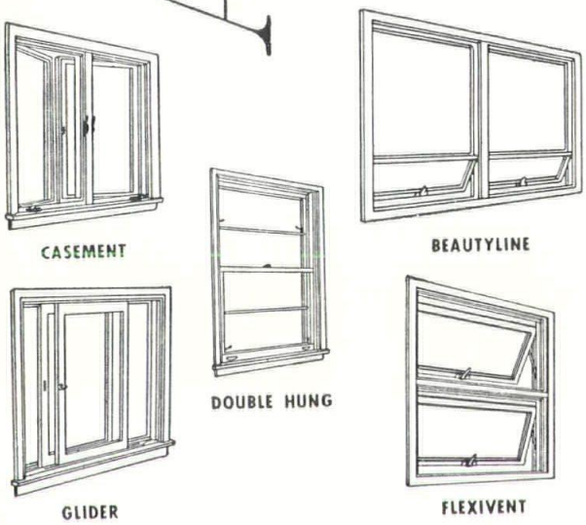

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Skin vs Masonry

From The Masonry Institute of the Detroit Mason Contractors Association

THE ULTIMATE COST of typical metal skin and glass walls ranges from 70% to 500% higher than the cost of comparable masonry walls, according to a study recently published by the Structural Clay Products Institute, Washington, D. C.

The first cost may be as little as a fifth of the ultimate cost in an all-glass wall and less than a third of long-term cost in a metal panel wall with 50% window space.

A tax-exempt owner (school, church, club or government unit) pays nearly twice as much to own a wall as a taxpayer, the study found. (The taxpayer is able to deduct operating costs from his annual tax bill.)

Thus skin wall construction is most prohibitive for the tax exempt owner. His difference in ultimate cost between a masonry wall with 30% window space and a glass wall is more than $17 per square foot in a typical office building. His difference between masonry and metal wall is nearly $4 a square foot.

The new volume marks a first attempt to apply to building construction the yardstick of "ultimate cost" which has been widely applied in other economic fields. The ultimate cost is calculated as the present value of all the money that would be spent on initial and operating costs over the 50-year expected life of a typical office building.

Authors of the precedent-making study are Clayford T. Grimm, P. E., assistant director of engineering and technology, Structural Clay Products Institute, and James G. Gross, staff engineer, of the Institute.

Cost comparisons were made on three types of wall construction — masonry cavity wall, metal panel wall and double plate glass wall.

On a typical 10-story office building with 72,000 square feet of exterior wall, the authors found these ultimate costs:

for a tax paying owner	
double plate glass wall:	$1,317,000
metal panel wall with 30% window space:	792,000
masonry cavity wall with 30% window space:	627,000
for a tax exempt owner	
double plate glass wall:	$2,160,000
metal panel wall with 30% window space:	1,102,000
masonry cavity wall with 30% window space:	915,000

On a per square foot basis, the comparison is:

for a tax paying owner	
double plate glass wall:	$18.29
metal panel wall:	7.86
masonry cavity wall:	4.60
for tax exempt owner	
double plate glass wall:	$30.02
metal panel wall:	9.01
masonry cavity wall:	5.26

Tax exempt owners are a bigger factor in the construction industry than generally realized, the authors found, accounting for 50% of the non-residential building volume last year.

Fifteen factors of initial and operating costs and credits were computed in arriving at the ultimate cost figure. The cost factors included:

Initial construction cost, cost of supporting the walls, space occupied by the walls, value of money, insurance, maintenance, heating, air conditioning.

Credit factors computed were:

Depreciation, income taxes, speed of erection, savings on artificial illumination, salvage value.

Although metal panel and glass curtain walls are generally lighter and slimmer than masonry walls, the savings on structural steel and rentable floor space which result are far less than has been claimed, the authors of the study report. Savings on steel skeleton in a multi-story building are about 23¢ per square foot of wall area with glass walls. Glass walls may save up to 84¢ and metal skin walls up to 44¢ per square foot of wall area in rentable floor space, when a building must be built up to the restriction line. In a low building or in a building set well back on its lot, these savings are not obtained.

The new study, "Ultimate Cost of Building Walls," has been published as a 36-page book by the Structural Clay Products Institute. The Institute also has scheduled for early publication a four-page file folder digesting the book's findings. (A more extended digest has recently been published in the Journal of the American Institute of Architects.) Free copies of the book and the summary folder may be obtained from the Masonry Institute of Detroit, 2115 Book Tower, WO. 3-2714.

ARCHITECTS FROM THE DETROIT CHAPTER OF THE AIA were entertained at a luncheon recently at the Statler Hilton Hotel by the Plextone Corporation of America.

Burt Ames, Vice President of the company, voiced Plextone's claim to fame and made demonstrations showing the work his product will do.

Mr. Ames had this to say:

"Plextone is a fascinating interior and exterior decorative paint which is multicolored and applied in one coat by the spray method. Through its use it is now possible to spray a surface with two or more colors simultaneously in a single spray coat. This does not require special equipment or special techniques. The multiple colors exist separately within the finish. They do not merge or blend and, upon being sprayed, they create an interlacing color network."

The company reports that Plextone is hard to scratch or chip, is highly washable even with abrasive cleaners, and has the unique property of emitting no spray dust or fog while it is being applied.

Burt Ames, Vice President, Plextone Corporation of America, demonstrating the principles of multicolored paint to Detroit Chapter members at a recent luncheon.

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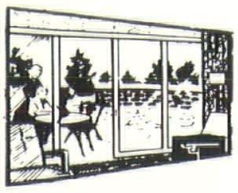

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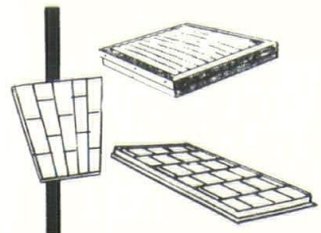

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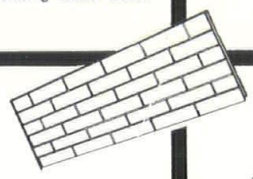

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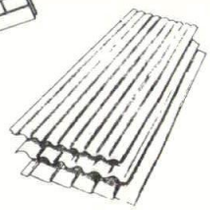

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WORLD'S LARGEST BRICK DISPLAY "SUPERMARKET" HAILED AS NEW MERCHANDISING CONCEPT

MICHIGAN'S GOVERNOR G. MENNEN WILLIAMS formally dedicated the Kurtz Brick Company's new, modern structure at 14183 Wyoming, Detroit, on Nov. 7, 1958. Thus was unveiled the "world's largest and finest brick display" before a throng of more than a thousand visiting dignitaries, architects and industrialists from all parts of the State and nation, during th two-day ceremonies.

The end of another success story? No, it's more than that. It is the story of one man's quest for a better way to display his wares, a modern method of promoting the products of his industry. And Paul Kurtz found the way.

It was eighteen years ago that Kurtz decided to become an independent businessman. One wheelbarrow and one shovel were his stock in trade. Through hard Work and dedication to his trade, his one-man operation has mushroomed into a 25-acre storage yard which maintains one million brick stock and an ultra-modern building which spans ten city lots.

"What is a brick?" Kurtz asked himself. History answered that it is stronger than stucco, concrete and steel, dating back to the descendants of the sons of Noah, centuries before the Birth of Christ. "How does a brick look in a wall?" Kurtz asked architects and contractors. No one had the answer. "Then we must show off the many new shades and colors, sizes and shapes of brick, to best advantage—in their natural setting," Kurtz decided.

Already acclaimed internationally by the brick industry as a revolutionary method of displaying and selling structural clay products, the Kurtz "supermarket" utilizes sufficient brick in its structure to build 75 homes. A special "brick gallery" exhibits over 200 different clay building materials, representative of 1,500 varying patterns and colors Kurtz has available to the architect and contractor.

Display panels ranging in size from 4' x 7' to 12' x 22', show the intricate designs of various brick, set in permanent form in mortar with different types and colors of bonds and joints. This permits easy, efficient "Supermarket" selection of the exact choice of brick desired by the professional or the amateur builder.

The main attraction of the outside display area is a giant free-standing masonry wall, 100 feet long by 25 feet high, unduplicated anywhere in the world. Comprised of 17,000 brick of 50 different styles, the display is divided into 40 distinct sections. A patio-like area on the building grounds features flagstone and brick walks, flower beds and clusters of trees and shrubs.

Another innovation in the Kurtz building is the fully-equipped conference room, designed to accommodate the architect who wishes to bring his client directly to the display for his brick selection. Individual shoppers may select their choice by the numbered panels outside and receive immediate additional information inside the building.

Paul Kurtz spent the past three years scouring the country for different types of brick. The result represents the finest quality and the most unusual brick from 30 states—a display unequalled anywhere in the United States. A veteran in the structural clay products industry, Kurtz has supplied such projects as The J. L. Hudson Company's world-renowned Northland and Eastland Shopping Centers, in Detroit, Michigan.

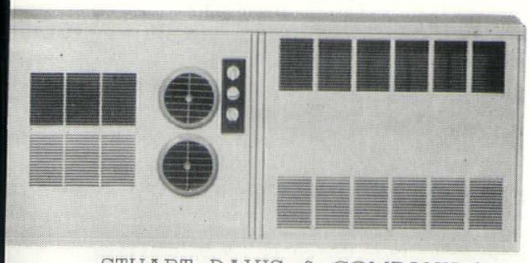
AT OPENING, left to right: Ralph D. Crawford, Branch Manager of Manufacturers National Bank of Detroit; Bank President William A. Mayberry and Paul Kurtz, President of Kurtz Brick Co.

Visitors have come from as far off as Nova Scotia to witness an unbelievable assortment of face brick, sand moulds, glazed brick and tile, ranging from the hand-chiseled rock faced adobes of New Mexico to the colonial sand moulds of the Virginias, from Roman to Norman, and from antique to Acapulco.

A resident of Detroit for more than 35 years, Kurtz has proved a tireless leader in his campaign to produce "a finer brick to build a better Detroit."

Edward M. Newman, A.I.A., was the architect. Robert C. Klevorn is assistant to Kurtz in management.

Kelvinator-Embassy Introduce Weather-Twins . . . New Combination Heating and Cooling Units



STUART DAVIS & COMPANY have just announced their appointment as exclusive Michigan Representatives for the radically new KELVINATOR-EMBASSY WEATHER-TWINS (IBR and ASME approved) . . . a years' ahead advance in combination heating and cooling units cooperatively developed and manufactured by the Kelvinator Division of American Motors Corporation and Embassy Steel Products, Inc.

The Davis organization is a young aggressive company directed by experienced graduate mechanical engineers R. Stuart Davis, Carlin L. Wilson, William C. Tarkington and Bernard Sandusky.

THE WEATHER-TWINS consist of self-contained Kelvinator air conditioning with Embassy convection heating, housed in an integral, engineered cabinet. The air conditioner is designed for the ultimate in cool comfort with adjustable thermostat . . . simple dial controls . . . two variable pitch louvers which rotate a full 360 degrees. Drafts are eliminated.

Since the Kelvinator air conditioner is air cooled, there are no plumbing or water problems and costs; no space consuming ducts.

The heating portion of the Weather-Twins is the famed Embassy heating element. The convector is suitable for the widest range of heating requirements since the elements are adaptable for one-pipe steam systems, two-pipe vacuum systems and hot water systems. The heating system is completely silent; there are no fans. Breakdowns and maintenance are non-existent.

Motels, hotels and office buildings will particularly appreciate the economy of the Weather-Twins system since only rented rooms need be cooled. School districts, in planning new construction, can provide for future air conditioning without any immediate expenditure of funds for units or duct work.

The design characteristics of the Weather-Twins make it of special interest to the architect and the interior designer. The outside of the installation is almost flush with the face of the building. The face of the cabinet inside the room can be flush with the wall and painted the same color.

Stuart Davis & Co. new offices are at 2300 North Woodward Ave., Royal Oak, Michigan . . . Telephone LIncoln 8-0011. Weather-Twins may also be seen in BLUEPRINT HALL at SHOWCASE, INC., Birmingham, Mich.

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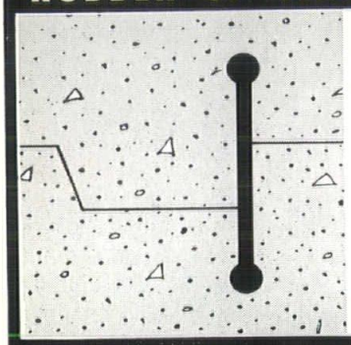

Williams Waterstops are made from Natural Rubber Stock and designed for maximum effectiveness in any type of cast-in-place construction joint. They will bend around corners, and will not crack or tear from shear action. Tensile Test: 3990 lbs., Elongation Test: 650%. Available in rolls up to 80 feet in length. Field splicing is simple. Williams Waterstops can also be furnished in Vinyl or Neoprene for industrial uses where resistance to oil and other injurious wastes is desirable.

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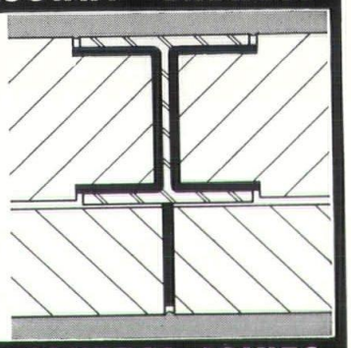
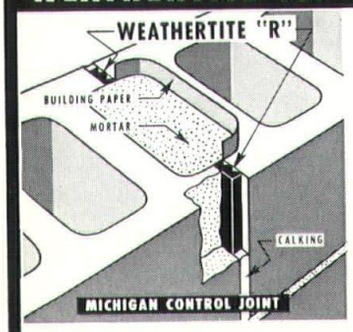


WEATHERTITE for CONTROL JOINTS



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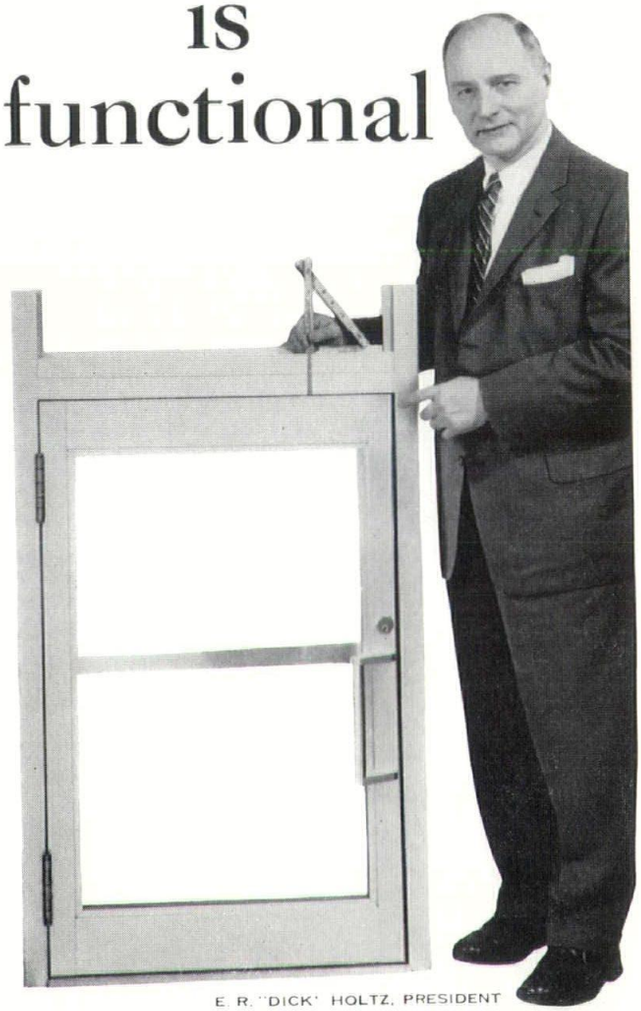

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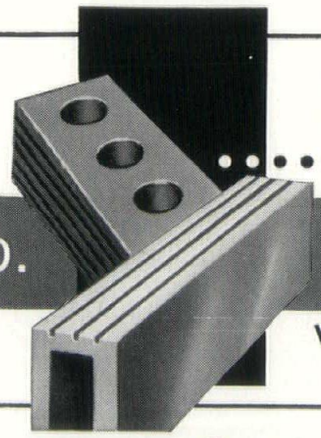

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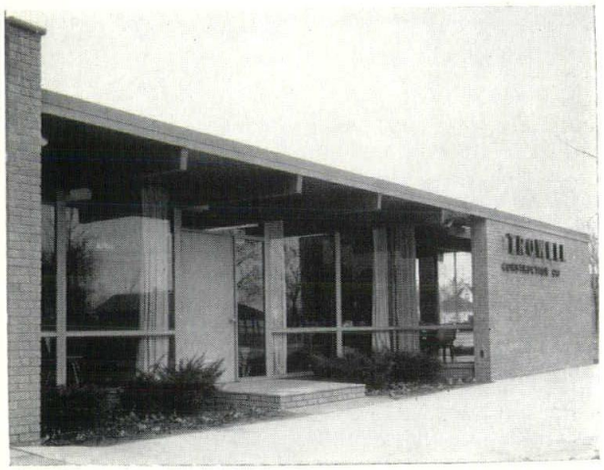

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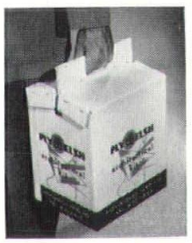

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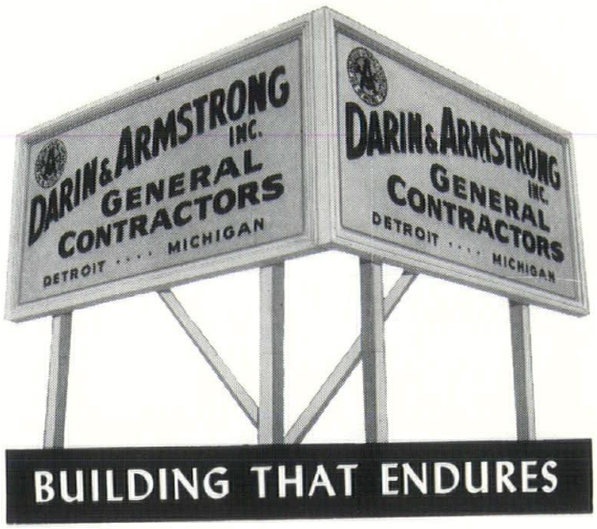

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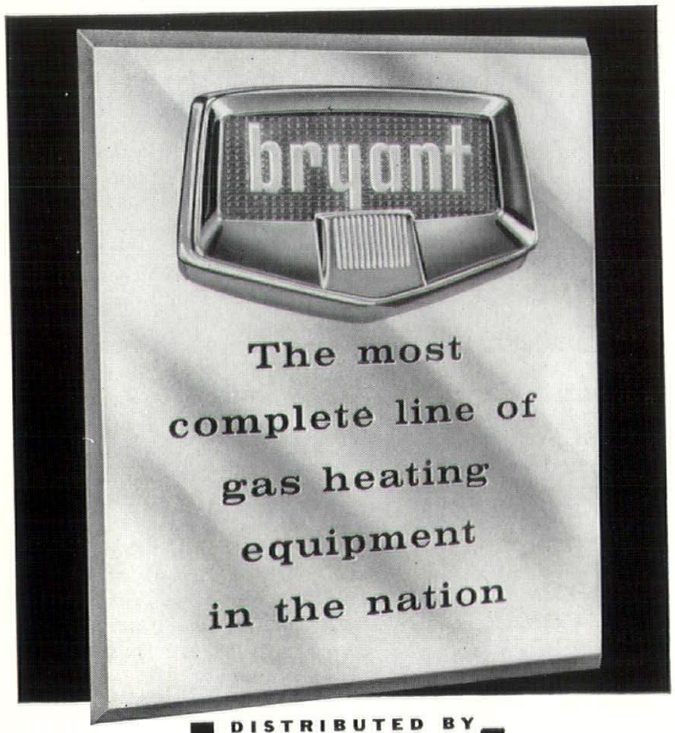

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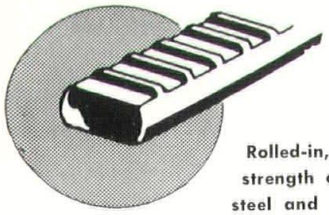

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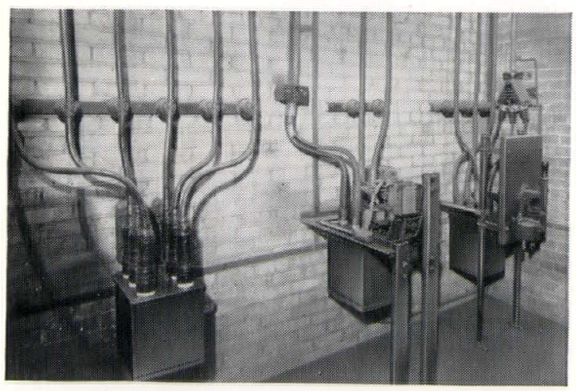

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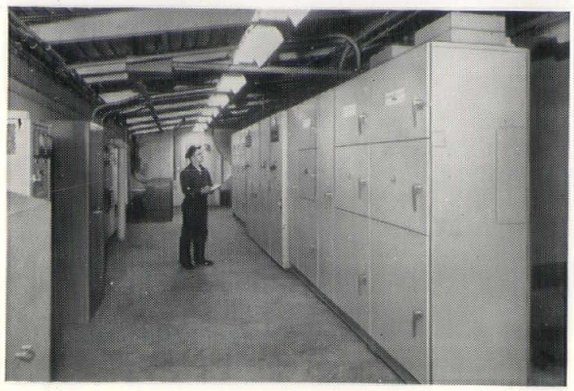

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